## PRINCIPLES O HARMONY,



A Complete de Compendious Illustration


NEW \& ORIGINALS PLANT.
In which every Part of that Science firm its most


## PROGRESSIVELY EXHIBITED.

and so arranged as to render the Whole familiar to the


ACourse of Exercises in Skeleton, with appropriate Rules and Examples accompanies His Work, to enableflupls by uniting on each Branch of the Science to familiarize the whole, and. $\dot{\text { in }}$ crier to correct such Errors as may cur a Fíy is amend containing Hue Exerrises in their com--plete State, by the help of which the Student mag detect cory fruit, and with cit five the Th striction attain a complete knowledge of the Theory of Nhisir.

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# Introductory Observations. 



In Modern Music five different Characters are occasionally applied to each Letter of the Gamut, by which its precise degree of gravity or acuteness in the Harmonic System is marked.


On the Piano Forte the above Characters are exprefsed on the following plan.
The , (Natural) is always represented by a white Key.
The \# (Sharp) is represented by the next Key to the $q$ ascending.
The $b$ (Flat) is represented by the next Key to the $q$ descending.
The $x$ (Extreme or double Sharp) is represented by the next Key to the \# ascending. The $b b$ (Extreme or double Flat) is represented by the next Key to the $b$ descending.

The twelve Keys in the Octave of the Piano Forte are made sufficient to exprefs the feven Letters of the Gamut in their five different Characters, on the plan exhibited in the following Table, in which each Column shews the different Notes represented by one Key.


It must be observed that these sounds, which in a practical view appear to be one and the same, are distinct and unconnected in the Harmonic System, as will hereafter be proved.

[^0]
## Essay I.

## On the TONE and SEMITONE.

The smallest degree of sound the Piano Forte exprefses is a Semitone, which is reprefented by moving from one Key to that immediately following.

## 

## SEMITONES are of two Natures, MAJOR, and MINOR.

A Semitone is said to be Minor, when without changing its situation on the stave, it is made to rise or fall one degree on the Instrument, by means of a new Character being prefixed to it.


A Semitone is said to be Major, when in rising or falling a degree on the Instrument, it changes its situation on the stave.

Example


## EXERCISES ON MAJOR SEMITONES.

Represent the Semitone to the Note given by writing one Note in each Bar agreeable to the following rule.

* RULE. ascend one degree on the Instrument, and exprefs such note one Letter higher on the stave, in the manner exemplified in the first three Bars.


## LESSON 1. Semitones ascending


${ }^{+}$LESSON 2. In which double Characters ( $x b b$ ) are used to exprefs the Semitone Rule as before


## LESSON 3. Semitones descending

RULE. Descend one degree on the Instrument, and exprefs such note one Letter lower on the stave in the manner exemplified in the first three Bars.


LESSON 4. In which double Characters are used to exprefs the Semitone. Rule as before.


[^1]
## EXERCISES on TONES.

The next degree of sound to a Semitone is a Tone.
A. Tone is a distance composed of two Semitones.

Example


## Lesson I.

Tones ascending

Represent one Tone from the note given agreeable to the following rule RULE. Ascend two degrees (or Semitones) on the Instrument, and exprefs such note one Letter higher on the Stave, in the manner exemplified in the first three Bars.


## Lesson 2.

In which double Characters are used to exprefs the Tone, the Rule as before.


## Lesson 3.

## Tones descending

RULE. Descend two degrees on the Instrument and exprefs such note one Letter lower on the Stave, in the manner exemplified in the first three Bars.


## Lesson 4.

In which double. Characters are used to exprefs the Tone, the Rule as before.


## Essay II. -

This Essay treats on the manner of ascending or descending by a certain order of Tones and Semitones (called the Diatonic order) from the given (or Key) note to its Octave, by which Order all the Sharps or Flats peculiar to such Key note are determined.

The notes contained within the Octave constitute (what is called) the Scale of such Octave, which Scale takes its name from the Key note, with which it begins and ends.

The Scales are of two sorts Major, and Minor, so denominated from the nature of their third, when the third note of the Scale is two Tones distant from the Key note, the Scale is said to be Major.

## Example C Key Major Scale



When the third note of the Scale is one Tone and one Semitone distant from the Key note, the Scale is said to be Minor.

Example C Key Minor Scale


## EXERCISES ON THE MAJOR SCALES.

WRITE the seven ascending notes of each Scale, using such Sharps or Flats as will be found to narise by attending to the Rule given on the next Page.

Place each note on the perpendicular Line drawn down the Page.Exprefs the Semitone by a small black note.

The figures placed over certain parts of the Stave shew the order of the Sharps.


RULE. for discovering the Flats or Sharps belonging to any Key in a MAJOR SCALE.

ASCEND from the given (or Key) note in the following order, Two Tones and gne Semitone Three Tones and one Semitone: agreeable to the Example given in the upper and lower Lines of these Pages, the notes must proceed in Alphabetical order.

The figures shew the place and order of the Flats.


## EXERCISES on the MINOR SCALES.

WRITE the seven Descending Notes of each Scale, using such Sharps or Flats as the Rule given on the next Page requires.
Place each Note on the perpendicular Line drawn down the Page. Express the Semitone by a small note.


The ascending order of these Scales requiring some elucidation connected with Harmonic Principles, cannot conveniently be introduced, till such Principles have been stritably defined.

## RULE. for placing the Flats or Sharps of the MINOR SCALES.

DESCEND from the Key note (or Tonic) in the following order, Two Tones and one. Semitone," * Two Tones and one Semitone, one Tone. Reversing the Alphabetical order.


The outward circle represents the major scales The inward circle represents their relative minor scales



## 14 Further Observations on the Origin, Properties and

## Powers of the foregoing Major and Minor Scales.

These Systems being only simple deductions from natural principles of resonance having their Origin in one Principal Sound or Generator, that of the Tonic, into which they may clearly be resolved (as will be proved in a future part of this work) cannot but furnish a succession of sounds, of the most natural and agreeable order. Each Octave contains within it all the materials for producing those striking and varied effects which are peculiar to the powers of Harmony, and in a judicious management of these materials, rests the whole science of Music. If you exceed the limits of one Octave, you enter on another of the same order, and so on to a third, or fourth, each being only replicates, one of the other. As soon as you alter the prescribed order of the Scale by the introduction of any
 or Key, to some other, of which the new sound forms a constituent part; herein lays the fart of that branch of Music called Modulation.

EXAMPLE.


The first three notes of this Example are in C. Scale Major Mode, but as soon as the b lB is introduced the Scale changes to , of which Scale $b_{B}$ is a constituent part, and this Scale continues till $母_{B}$ restores the original Scale of $C$. The difference between the Major and Minor Scales consists in the varied disposition of their Tones and Semitones, but the striking Characteristic of each is formed by the peculiar nature of their Thirds.
Pieces of Music composed in the Major Mode, in general address the Ear in a Masculine Majestic or Sprightly strain, those of the Minor Mode speak a language Effeminate, Plaintive or Pathetic. Every Major Scale has a correspondent Minor Scale bearing the same characters, a comparative view of which is exhibited on Plate 12. By the interchange of the Major and Minor Third is produced another System of sounds called Chromatic proceeding in the

## Order of Semitones.



Every Octave is composed of twelve Semitones, each of which may be selected by the Composer for the Key of his Piece, and each of these Keys may be regulated by the order of the Major or Minor Mode.


The Order in which the Sharps and Flats are produced in these Scales deserves no-tie, by carrying the Eye up the last perpendicular line but one (or seventh note) of the Major Scales on Plate 8, the progression of the Sharps beginning on $\# \mathbb{F}$ in $\mathbf{G}$ Scale and ending on B\# in C\# Scale is seen, in which order such of them as belong to the Key of a Composition are placed at the beginning of the piece Ex: by carrying the Eye down the perpendicular line running through the fourth note of the Major Scales on Plate 9: the progression of Flats beginning on $b_{B}$ in $F$ Scale and ending on $b_{F}$ in $b c$ Scale is seen, in which order such of them as relate to the Key of a Composition are likewise placed at the beginning of the piece.

## Explanation and use of the CIRCULAR DIAGRAMS on Plate 12 and 13.

These Schemes are given to enable the Student to determine the Key and Mode inwhich any Piece is composed, and are to be used in the following way. First observe the number and situation of the Sharps or Flats placed at the beginning of the Composition,then look for the same in the outward Circle of Major Scales, obferving the Letter placed over them; next look for the same Sharps or Flats in the inward circle of Minor Scales, regarding in like manner the Letter connected with them; for Example, fupposing the Composition to have in the Major Circle you find $A$ affixed to them, and in the inward or Minor Circle $\#$ F, this proves the Composition to be either in the Key of A,Major Mode, or $\#_{F}$, Minor Mode, but which of these Modes is to be determined by the Harmonic Circle in the following manner.

METHOD of determining the Mode by the HARMONIC CIRCLE.
In this Circle consisting of twenty one Letters, each Letter is exhibited combined with its Major and Minor Third and Fifth. the principal Letter and its fifth, being considered as fixed founds, are represented by two Semibrieves in ftrong Characters, the fifth placed imme -- diately over the Principal, thus the third being a variable found of two natures, Major筑d Minor. the Major is represented by a Semibrieve in a faint Character, on the right side, and the Minor by a small black note on the left thus for the purpose ofdetermin-- ing the Mode, we must bring the two Letters before spoken of $A, \& \mathbb{\&}$, to this Circle,examine the notes combined with each of them, and compare such notes with those employed at the be. -ginning of the Composition.

## Example



Supposing the notes of the Composition to be those given in Example 1.we there dis --cover the notes employed to be A.\#C.\&E. with which we are to Compare these notes taken from -the Harmonic Circle Composition to be in A Key, Major Mode. The same of Ex: 2. which contains the same notes disposed in a different order. Again, fupposing the notes of the Composition to be those given in Ex: 3. we there discover $\#$ F. A. $\& \#$ C. with which we are to compare the above mentioned notes of the Harmonic Circle, we thereby discover that they agree with \#F, its Minor $\mathcal{S}^{\text {rd }}$ A, and its $5^{\text {th }} \# \mathrm{C}$, whereby the Composition is proved to be in the Key of \#F Minor Mode. In the same manner the Key and Mode of any other Regular Composition may be discovered.

## Essay III. <br> On Harmony

Having in the foregoing pages exhibited the Diatonic arrangement of the feven notes of the Major and Minor Scales in a way of Melody, or fuccefsion of single sounds, we shall next proceed to shew the principles on which thefe sounds are combined so as to form Harmony.
In entering on this Subject, we shall take occasion to elucidate the firft principles of refonance or Phenomenon of natural Harmony before fpoken of, as on this Basis is eftablished the whole fyftem of that Theory, which we have to offer.
Mufic, like all other human arts has advanced progrefsively to its prefent degree of improvement. fome facts were at firft difcovered by accident, others were the refult of reflection and inveftigation: these being united and properly difpofed of, conftituted a body of Science, which while it diffuses ,that light with which the labors of paft ages have illumined it, invites fuccefsive ones to give additional luftre to its beams, either by irradiating it with further new and important discoveries, or de--velloping it of that obfcurity which has hitherto pervaded the writings of the moft ingenious Theorists.

## The Principles of Resonance illuftrated.

Sound, is that fenfation which is produced on the auditive nerve by the vibrations of fonorous bodies, and of which the air is the vehicle. The ftring of a musical Inftrument being caufed to vibrate, in ftriking the air communicates similar vibrations to that element, which alternately condenses and relaxes, just in the fame time as the vibrating ftring departs and returns in per_ forming its vibrations: the air again communicates the same vibrations to the Ear, and the ear transmits them to the mind.

There are evidently three respects in which founds admit of variation; from fweet to harsh,from weak to ftrong, and from grave to acute; The firft of these properties depends on, the peculiar quality of the Inftrument by which the found is produced, the fecond on the force of its vibra tions, and the third on the degree of velocity with which fuch vibrations are emitted: Butbefides these, which are manifeft qualities, there is one more important property peculiar to fonorous bodies, which tho in fome degree of an occult nature is fufficiently perceptible by an experienced ear, to be acknowledged among Musicians as exhibiting a phenomenon which Nature directs us to receive as the Basis of all the laws admitted into the fyftem of Harmony.

[^2][^3]By causing the String of a musical Instrument to sound, we not only hear the efsential tone of fuch ftring, but certain accefsary founds accompanying it, and these in a diftinct and regular fuccefsion; the firft found it generates is that of its Octave, the next that of the Octave to its $5^{\text {th }}$ or $12^{\text {th }}$ and laftly the double Octave to its Major 3 rd or $17^{\text {th }}$


These notes form what we call the Harmonics to the principal found, which when reduced to 'their loweit denomination ftand in the relation of a $3^{\text {rd }} 5^{\text {th }} \& 4_{+}^{\text {th }}$. to fuch found, $:$ in which relation we shall in general mention them in the fucceeding part of this Essay.

These Harmonics always accompany every principal found, but the sharper fuch found,the lefs sensible are our Ears of the Harmonics. the loweft ftrings of the Violin or Violincello are allowed to be the moft favorable for this experiment.

Taking this Experiment for our Basis, we shall proceed to shew certain facts immediately depend -ant thereon; and others deduced from them equally certain, tho more remote*.

The firft principle then, interwoven in this Experiment, is that which proves the relative connexion of founds, ftanding in a greater or lefs degree of affinity, according to the order in which they are generated by the original found. Supposing to be the original found the firft found gene -rated by it in the way of resonance is its octave; and this octave; is the firft andelofeft connex. ion that fubfifts between founds, It is the firft found that our Organs are imprefsed with, and led to the imitation of; It is the fame as its Generator in every refpect but that of acutenefs, which property it pofsefses in an exact double degree, as can be proved by geometrical demonftration: So absolutely does nature demand this exact proportion to fubfift in the Harmony of the Octave, that whereas in all other Harmonys the Ear will endure fome variation from that degree of gravity or acute_ nefs necefsary to its perfection, the leaft alteration in this is intolerable; It admits of no other consideration either in itself or its connexions, but that of a representative of its principal or Generator.
$+_{A n} 8^{\text {th }}$ is a diftance compofed of 5 Tones and 2 Semitones
$t_{A} 5^{\text {th }}$ is a diftance compored of 3 Tones and 1 Semitone

[^4]The next found generated by the primative is that of its $12^{\text {th }} \cdot$ or $5^{\text {th }}$. The $5^{\text {th }}$ differs materially from the Octave, chiefly with respect to the variety of its Harmonics from those of the original as on applying to this found the principles of resonance, it yields two founds not found in the former Harmony
 D \& B.

Now as we are taught by the natural principles of resonance, that the $5^{\text {th }}$ forms the neareft … relation to that of the octave, it is evident that every principal found muft have two others immediately connected with it in that relation, the one which forms a $5^{\text {th }}$ to it, and that to which the fame principal found forms a $5^{\text {th }}$ or in other words, that found which it generates, and that by which it would be generated on the fame principles Ex:
 This consideration. therefore naturally leads our enquiry to the produce of the note which note on having the principles of resonance applied to it, yields besides its octave or reprefentative, $C$ and $A$


Having proceeded thus far, before we take notice of the " $17^{\text {th }}$ or $3^{\text {rd }}$. Major, (the laft. Harmony, generated by the principal) we will remark the refult of the foregoing in veftigation, for which purpose we will bring forward into one point of view, the three principal founds before mentioned, with their Harmonics, thus
 On examining these Harmonys, we shall find contained in them the feven notes of C Scale, besides replicates of the Principal Sound or Tonic and its $5^{\text {th }}$. Nature dictating thereby, the fuperiority of thefe two founds over the reft. Thefe founds being arranged in Diatonic order produce a fuccefsion of Melody the moft natural and agreeable; which fuccefsion is called the Major Scale.
 not Harmony of Melody.

The laft thing we have to account for in this Essay on the principles laid down, is the Origin of the Minor Scales, which we shall now attempt to prove in a way of analogy with those of the Major, The latter were preved to fpring from the natural principles of resonance in a way of
sonnection with the $5^{\text {th }}$. These will have for their Basis that of the $3^{\text {rd }}$ the laft found generated by the principal note; and as this found is more diftant from its Generator than the $5^{\text {th }}$ fo is this Mode which is eftablished thereon, lefs natural, and agreeable in its effect.

To elucidate this part of our fubject, we muft again recur to the natural Phenomenon of resonance first spoken of as it was before obferved with refpect to the $\boldsymbol{5}^{\text {th }}$ that if the principal or primative found generated this $5^{\text {th }}$ and thereby pointed out the natural connexion fubfifting be_ -tween founds forming fuch Interval, that a fimilar connexion muftubfift between fuch principal found and that note by which it would be generated; if fuch note were caused to found: Ex: by pursuing a similar method with respect to the $3^{\text {rdd }} \& 5^{\text {th }}$ that is
 we shall obtain the desired end. This $\mathbf{E}$ and $\mathbf{G}$ having $\mathbf{C}$ for their common generator to which they ftand originally related as a $12^{\text {th }}$ and $17^{\text {th }}$ are thus brought in connexion, but it is evident that independent of the original found or common generator $\mathbf{C}$, that no connexion can fubfift between them on the aforementioned principles of natural resonance; neither of them having the innate property of generating the other: This question than arises. Can we by any modification so apply the original principles of resonance to either of these founds, that one of them shall generate the other, and that independant of their first common generator $?$ We can. It is evident that by liwering the original $3^{\text {rd }}$ one Semitone; that is making it 1 will produce $\frac{9}{6}$ as its $17^{\text {th }}$ or Major third, which modified note, and its product, will both Harmonize very agreeably as experience proves with the original found thus
 in a way of analogy by which alone researches of this kind can be conducted. we account for the origin of the Minor Mode, which Mode directs that Syftem or Scale of founds exhibited on Page 10.

## EXERCISES on the HARMONIC TRIAD OR <br> Perfect Common Chord.

This Combination is formed by the Intervals of a $3^{\text {rd }} 5^{\text {th }}$ and $8^{\text {th }}$. from the Principal found or Bafs note.


From these Examples it may be obferved, that these Harmonics do not change their deno mination on being transposed to a distant octave.

This Combination
is used in 3 different Positions or Inversions.


The Roots or Principal notes being given in the Bafs, the Student is required to write the Harmony of the $3^{\text {rd }} 5^{\text {th }}$ and $8^{\text {th }}$ in the Treble.
The upper figures of the Positions in which the Harmonys are to be written, are placed over the Treble Stave.
The Sharps and Flats placed under the Roots, shew the nature of the Thirds which the Harmonys require:by a $\#$ is signified a Major $3^{\text {rd }}$ by a $b$ a Minor $3^{\text {rd }}$.

In the first three Bars are given an Example of the manner in which these Fxercifes are to be written.
KEY of C MAJOR.

Roots


KEY of G MAJOR. $\int_{\square}^{\text {\# }}$











A familiar acquaintance with this Harmony in its different positions, will be found of great advantage in the Practical branch of Mufic; it will especially contribute much,towards enabling the Student to play at sight, as it shews that connexion of founds which forms the fubftance of every Composition. For the purpose of familiarizing this Harmony, a few more Exercises are fubjoined, in which the former Plan is inverted.
$f$ In the following Exercises, the Chords being given in the Treble, the Student is desired to apply to each Chord its respective Root in the Bass.
RULE. "Apply such Root to each Chord, as its Harmonics will ftand related to in the dis--tance of a $3.5^{\text {rd }} \& 8^{\text {th }}$ in the manner exemplified in the three first Bars.





## Essay IV

## INTRODUCTION to that BRANCH of the SCIENCE of MUSIC called Thorough Bass.

The sounds employed in the Combination of the Harmonic Triad, are Concords of two. denominations, Perfect, and Imperfect: Such Concords as admit of no variation in the number of Tones and Semitones of which they are composed, without disgusting the Ear are called Perfect, of this description are the $8^{\text {th }}$ and $5^{\text {th }}$ Concords admitting a Semitone more or less in their Composition, with agreeable effect, are called Imperfect, of this latter description is. the $3^{1 r d}$ which is distinguished by the terms Major, and Minor, according as the number of Se-. mitones it contains are greater or less. These are the only Concords found in the Har monic Triad in its original order, but by an Inversion of this order, two more Concords are discovered, one Perfect, the other Imperfect; These Inversions are made by putting. those notes which in the original state of the Harmony were in the Treble into the $\mathbf{B}$ ass, and the former Bass or Root into the Treble.

## EXAMPLES of the different Inversions of the Harmonic Triad.




Should the original $3^{\text {r }}$ d be Minor its first Inversion will then be a Major $6^{\text {th }}+$ Example


[^5]EXERCISES on the Concords arising from the Inversion of the HarmonicTriad.


## Perfect $4^{\text {th }}$



In calculating the Tones and Semitones in each of the above Exercises care must be taken to proceed in Alphabetical order
PHOROUGH BASS is that branch of the Science of Music which enables the performer to add Harmony to Melody, by means of certain Signatures applied to the Bafs notes, which denote their particular Character either as .Roots or Derivatives therefrom, and shew the Accompaniment they require. The figures placed under the Bafs notes of the $1^{\text {st }}$. Example exprefs the Treble notes of the $2^{\text {nd }}$. Example of which a further illustration will be afforded in the following pages.


# The HARMONIC TRIAD bears three SIGNATURES, one on its ROOT and two on its INVERSIONS. 



By these Examples it is evidert that when a 6 is placed over, or under a Bafs note, the first Inversion of the Harmonic Triad is thereby reprefented, and the Accompaniment is that of the third below, and that when the figures ${ }_{4}$ are applied to the 3 afs note, the fecond Inversion of the Marmonic Triad is therehy reprefented, and the Accompaniment is that of the fifth below.

The few following Exercises in different Keys comprise the fubftance of the foregoing Olfervations which if cully attended to will speedily render the Subject familiar.
In these Exercises the Harmonic Bass being given, the Student is directed first to write under each Bass its respective Root, and then to fill up the Accompaniment with the $3^{\text {rd }}, 5$, and 8. of eacl. Root. in the same manner as in the Exercises on Page 21.

The netes required to be added in the Accompaniment are to be written immediately under thofe given.
The nature of the $\mathbf{3 d}^{\text {rd }}$ is to be determined by the Scale of that Key in which the Exercise is written, from which Scale mo deviation is allowed.






${ }^{7}$ In the following EXERCISES the Student is desired to figure the HARMONIC BASSES according to their distance from the ROOTS, and fill up the Accompaniment as before in the manner exemplified in the first three Bars.


G.1.t.

## Fsssay

## The DISCORD of the FLAT SEVENTH and its SIGNATURES.

Having shewed the nature of the Harmonic Triad.with its Inversions; and Signatures: we now proceed to the illustration of another Species of Harmony distinguished by the name of Discord.

Concord and Discord form the two grand distinction of Species in Harmony, The nature of a Concord is such as to produce the most pleasing and fatisfactory effect on the Ear, without the aid of any preceding or fucceeding founds; that of the Discord is fuch as to require both, as from its jarring effect on the Ear, it fuspends fatisfaction, and excites an impatient expectation in the mind of fome fucceeding Harmony whereon it can rest with pleafure; yet this fuspense is amply compensated for, by the increased delight with which the fucceeding Concord is thereby heard. A judicious Musician by means of these opposite fpecies of Harmony keeps up an In_ terest in his Composition, and by their aid produces effects analogous to those, which a well conceived disposition of Light and Shade afford in a masterly painting; what the latteris to the Eye, that, the former is to the Ear.

The first of all Discords both in point of order and effect is that of the FlatSeventh. ( $b_{7}$ ) It is a distance composed of four Tones and two Semitones and is discovered by following that order of founds which nature prescribes in the formation of the Harmonic Triad, by adding: to that Harmony another found, as far beyond the fifth, as the fifth is beyond the Major $\mathcal{J}$. EXAMPLE 8 男 a Minor $3^{\text {rd }}$ now by following this order of fuccefsion in our way towards obtaining an additi_ -onal found to this Harmony, we arrive at a flat $9^{\text {th }}$ from the Root and this fourth, found when added to those of the Harmonic Triad, gives its name to that Harmony; which is then called the chord of the $b_{7}{ }^{\text {th }} \mathrm{EX}$

This Discord at present is to be considered as applicable only to the fifth of the Key which fifth always carrys a Major $3^{\text {rd }}$ Write the Chord of the b7th over the Bafses given, actor_ ding to that order which the figures expref, as exemplified in the $1^{\text {st }}$ Bar.
(3.1.4.


The Harmony of the $b 7^{\text {th }}$ bears four Signatures, different from those of the Harmonic 'Triad: one on it Root and three on its Derivatives

Arconpeniwnt

## Example

llarmonic Bass
Derivatives

Roots


Another reprefentation of -the figuring of the Harmony of the $b_{7}^{t h}$

From the Inversions of the Harmony of the $b 7$. arise three more Discords, that of the 2. composed of one Tone as it appears between the b7. and its Root on the 3. . Inverion That of the 4 or Sharp 4. composed of three 'Cones as is appears between the b? and thr
尾 original $3^{\text {rd }}$ of the Harmony on the fame Inversion *th composed of 2 Tones and 2 Semitones as it Major $3^{\text {rd }}$. and $\boldsymbol{r}^{\text {th }}$ on the first. Inversion
 hnd that of the $65^{\text {th }}$ or diminishet
 3 告Amersion appears hetween the original

EXEIRCISES on the Discords arising fron the Inversions of the IIrmony of the $b^{6}$.


# EXERCISES on the HARMONY 

Thefe EXERCISES are formed on the fame plan as thofe on the HARMONIC TRIAD, the Inverfions of which Harmony will be eafily diftinguifhed from thofe of the Harmony of the $b 7^{\text {th }}$. by the difference of their Signatures. The figuredTible and the Example given in the firft three Bars, will render any further illuftration unnecefsary. Such Harmonic Bafses as have no figures placed over them, are to be treated in the fame manner as they would be,were the figuries ${ }^{5}$ applied to them, the $\#$ placed under the $b 7^{\text {th }}$ denotes the Major 3 d which accompanys it.



The Harmonic Bafses of the following Exercifes are to be figured according to the diftance in which they ftand related to their refpective Roots. The Accompaniment is then to be filled up as before, in the manner exemplified in the firft three Bars.


(D) $7 r^{\circ}$


## Essay VI

## On Modulation.

Modulation is that branch of the Science of Music, the rules of which prescribe the method of removing from one SCale to another, as before illustrated in Page 14.it is from this source that the most striking and varied effects of Music arise.

Modulations may be divided into two classes, the Natural, and Abrupt; the former are those which are produced by the regular rules of the Science and affect the Ear with plea--sure, the latter arise from irregular successions of Harmony and affect the Ear in a more sudden and unexpected manner. The following Exercises will further illustrate the nature of Modulation.

All Modulations are made by means of the Harmony of $\stackrel{b 7}{\#}$ which Harmony whenever ap plied determines the Key; this Harmony is therefore denominated by Theorists, the governing or Dominant Harmony, wherever this Harmony appears, the fifth below its Root is the Key note.


## EXERCISES ON MQDULATION.

The following Exercises exhibit Modulations into all the Keys of the original Scaie ex cept the serenth which is not used on account of its having no Dominant in the original Scale.
In these Exercises the Student is desired to wirite the Roots and fill up the Harmonys in the manner exemplified in the first three Bars, placing the letter D under each Dominant Harmory. and the letter K under the Key note.







$40$



## Essay VII.

## On Cadences.

No musical composition or system of soumes can terminate.so as to satisfy the ear, but by an operation of Harmony called Cadence, of which there are several sorts, some conclusive or final In their effect, others inconciusive, and requiting subsequent matter, those of the former sort $-$ come under our present notice and are denominated Perfect Cadences.
The Perfect Cadence is comprised in two Harmonys, that of the Dominant, inmediately followed by the Harmony of the Key. The following Examples will illustrate this Harmonir ionftruction in various positions.


1
Of the above Examples, the first and second arre more suited for crinclusive Calomees than + the third and fourth, as their Bathes are formed of roots, the third and fourth the equally perfect are not so satisfactory to the ear, having derivatives for their Bafses and arw therefiro beft suited for the midale Cadences of a composition, The fifth Example exhibits a Cadence broken in Harmonic order. The $\boldsymbol{o}^{\text {then }}$ Example shews the intervals of a Cadence broken in Harnonic or der with the intoriention of trancient notes, which are distinguished by crofses placed over them $\%$

[^6]
## The MINOR SCALES in their ascending order.

THIS fystem of sounds being required to end according to the foregoing principles of Cadence occasions a difference to subsist between their ascending and descending order. For the purpose of terminating this ascending fystem by Cadence the final or Key note must be immediately preceded by some , branch of the Dominant Harmony, which seventh sound of the Scale will be found to stand in the relation of a Semitone to the succeding Key note, and in order to preserve a Diatonic progrefsion in the Scale this $9^{\text {th }}$ sound will require its preceding or sixth of the Scale to stand in the relation of a Major sixth to the Tonic. These two Major sounds ( $66^{\text {th }} \cdot$ and $9^{\text {th }}$ ) make the difference between the ascending and descending order of these Scales. $\%$


[^7]
## WRITE the seven ascending notes of these Scales in the following order

One Tone and one Semitone, four Tones and one Semitone.


## The Irregular Cadence or Close on the Dominanre.

The next Cadence necefsary for our consideration is that which terminates on the Dominant, therefore only suited for middle Closes in a piece, the Harmony of the Dominant in this Close is introduced either by that of the Key, or the second of the Key combiaed with its Minor $3^{\text {rd }}$. and Minor $7^{\text {th }}$. before this Cadence is further exemplified it will be necefsary to illustrate the nature of the last mentioned Harmony and its Signatures.

The Discord of the $7^{\text {th }}$ Major or Minor (as the Key requires) may under certain regulations be applied to every note of the Scale.

The Major $7^{\text {th }}$ is composed of five Tones and one Semitone.


The two first notes of this progrefsion give an Example of the perfect Cadence interrupted by a $7^{\text {th }}$ being applied to the Harmony of the Key, by which its final effect is deftroyed the pro--grefsion. of $9^{\text {ths }}$ is then continued through the Scale of $C$, the roots moving by descending $5^{\text {ths }}$.

## The Signatures

of the

## Harmony

 of the $7^{\text {th }}$

[^8]
## EXERCISES on the accompaninent of the MAJOR SCALE

 in its ascending order,in which the Perfect and Irregular Cadences. aic further illuftrated.

A The irregular Cadence or close on the Dominant preceded by the Harmony $\overbrace{0}$.
B The perfect Cadence on the $\mathbf{1}^{\text {st }}$ Inversion of the Harmony of the Dominant.
C The close on the Dominant preceded by the Harmony of the Key.
D The perfect Cadence exemplified on its Roots.

The following Exercises are to be written according to the method exemplifiect above.
The figures placed over the Treble Stave shew the position in which the Harmony is to be placit


46
Apply the SIGNATURES to the HARMONIC BASSES in the same manner as in the forgoing Example, and place the Harmonys in the same position.







## Essay VIII

## The Discord of the Flat Ninth (as combined with its Major 3: and $\left.b 7^{\text {th }}\right)$ and its SIGNATURES.

This combination is formed by the addition of a new sound to the Harmony of the Dominant; which sound exceeds the $b 7^{\text {th }}$ by the distance of a Minor $3^{\mathrm{rd}} \mathbf{E x}$ : the powers of that Harmony are considerably increased, and new Intervals formed by the Inver --sion of its Harmonics.

The Harmony of the $b_{6}^{9}$ bears five Signatures, one on its Root and four on its Derivatives. Accompaniment EXAMPLE Harmonic Bass Derivatives

ROOTS


This Harmony, tho it properly belongs to the Dominant of Minor Keys is frequently bor rowed by that of the Major

From the Inversion of this Harmony arise two new Discords, the extreme shard second composed of 1 Tone and 1 Semitone, as it appears on the fourth Inversion, and the diminished or $b b 7^{\text {th }}$ as it appears on the first Inversion.

EXERCISES on the Discords arising from the Inversions of the Harmony of | 69 |
| :---: |
| $\%$ |

RULE. Ascend 1 Tone and 1 Semitone from the Bass.
The $2^{\text {nd }}$ must be expressed by the next letter to that of the Bass as exemplified in the $1^{\text {st. }}$ Bar.


RULE. Ascend 3 Tones and 3 Semitones from the Bass.


EXERCISES on the HARMONY: of $\begin{gathered}9 \\ b 7\end{gathered}$
The Student is desired to fill up these Harmonys and to figure the Harmonic Bass in the manner exemplified in the first Bar. The Root is not to be added to the Harmony.


## On the Imperfect Triad

We now proceed to the illustration of another sort of Triad, differing from either of those exhibited on Page 20 with respect to the construction of in fifh. The two Fiamonic Triats or Perfect Common Chords before explained, differ only from each olier in the nature of the thirds in regard to Major or Minor Intervals, the fifth in both Harmonys being of the nam nature, Perfect, the Chord is therefore so denominated, by way of distinction from that wheh comes under our present consideration. This Harmony is formed of a Minor third and din --nished fifth, on account of the defective nature of which fifth this Triad is denominated the Imperfect Triad; like the former it admits of the occasional addition of a seventh, an of Inversions similar to those before illustrated.


As this Triad is found to resemble other Harmonys in its Harmonic signatures, as well a in its construction; it is necefsary to shew how it may be distinguished from them. 11 may be of served that in its fimple ftate uncombined with the $b 7 \%^{\text {th }}$ it resembles that Harmony which arises. from the first Inversion of the ${ }^{67}$ or Dominant Harmony when its ront is omitted in the Chnow, but is distinguished therefrom by having its place on a different part of the Scale, the Dominat Harmony occupies the fifth of the scale, the Imperfect Triad has its place on the sercouthrilje Major scale and on the second of the Minor, the Dominant Harmony always whyles that of 1 h , Key to follow it, which the Imperfect Triad does not but has its succeeding ion generala fouth above or fifth below, in the Minor scale it is generally followed by the nominant Harmopiny for which Harmony. it peculiarly prepares the Ear.


[^9]The following Exercises are proposed io enable the Student to distinguish the Harmony of the Imperfect Triad from any other which may resemble it. The Imperfect Triad will be known in these Exercises by being succeeded by the Harmony of the fourth above or fifth below. The Harmonic Bafses of these Exercises are to be figured and the roots applied. The Imper--fect Triad is to be figured thus bs.

## EXERCISES in MINOR SCALES in which the IMPERFECT TRIAD is introduced in its simple state.

In the following Exercises the Student is desired to apply the same Signatures as those


## 52

EXERCISES in MAJOR SCALES in which the IMPERFEC'I TRIAD is introduced combined with its $7^{\text {th }}$ The sixth note of these Exercises gives an Example of the Harmony 69 being borrowed by the Dominant of a Major Key. The figures shew "the distance of the upper notes from their Roots.




## Essay $\mathbf{X}$

## On the application of the Imperfect $5^{\text {th }}$. to the Dominant Harmony.

The Imperfect $5^{\text {th }}$. is sometimes used in the Dominant Harmony instead of the Perfect, from which new Intervals arise.


From the Inversions of this Harmony arise two new Discords; that of the extreme flat third composed of two Semitones, and the extreme sharp sixth composed of five Tones.


RULE.ascend 5 Tones.


EXERCISES on the Accompaniment of the Minor Scale in its descending order, in which the $\begin{aligned} & 67 \\ & b y y\end{aligned}$


Apply the same Harmonys as those used in the foregoing Exercise,



## Essay XI.

## On the application of the DOMINANT HARMONY on the TONIC and on the $\mathcal{J}^{\text {rd }}$. of the SCALE.

The Harmony of the Dominant is occasionally used on the Tonic, of which the following Examples afford illustrations.


The Dom. Harm! with its 9,9 applied on the Tonic


The Inversion of the foregoing Harmony by placing the Tonic over the Chord of the Dom:


In Minor Keys the Dom: Hary is sometimes applied to the $\mathbf{3}^{\text {rd }}$ of the Scale from which arises a new Interval denominated a Superfluous $5^{\text {th }}$ composed of 4 Tones.


From the Inversion of the above Harmony arises another Interval denominated a diminished 4 . composed of 1 Tone and 2 Semitones.


Example 1 shews the Inversion of the above Harmony with its b7

Example 2 shews the Inversion of the same Harmony with its $\begin{aligned} & 69 \\ & 6\end{aligned}$

[^10]An enumuration of such of the different Intervals contained within the Octave as are used in composition and have been illustrated in the course of this work with a reference to their deri --vation. The middle Column shews the Signatures, which the Roots belonging to their respec_ _tive Intervals bear.

## TNTERVALS The lowest of these two notes is the Root Minor nd

 composed of the Harmony of its Inversion
composed of
Signatures of the The highest of these

A Major thirdbelow the under note is the Root

1 Semitone

## derived from


-

2 Semitories

Of these Intervals it is to be observed that they are distinguished by dififreat Terms suited to exprefs their particular qualities, according to the various degrees of which they are com --posed; namely, Perfect and Imperfect, Major and Minor, Superfluous and Dimi--nished, these terms are applied in the following manner, the $4^{\text {th }}$ and $5^{\text {th }}$ are denominated Perfect when they are found in that degree in which the Diatonic Major and Minor Scales produce them, when they exceed that degree they are denominated Superfluous, and when they fall short of it Diminished, or (as exprefsed by some Authors) Imperfect. Those Intervals which the Diatonic Major and Minor Scales produce in different degrees namely, the 3 . and $7^{\text {th }}$. with their Inversions the 6. and $2^{\text {nd }}$. are in their greatest degree denominated Major or Sharp, and in their lesser degree Minor or Flat, when these Intervals exceed their Diatonic degree they become + (or extreme sharp) and when they fall short of it $b b$ (or extreme flat.)

## The foregoing Intervals are classedunder these two general Heads

## Concords and Discords



The peculiar properties of these two general species of Harmony having been already eluci -- dated on Page 31 renders any further observations thereon unnecefsary.

## EXERCISES on all the different Intervals used in Composition.

A reply to each Interval its respective Signature according to the number of Tones and Semi_ _tones of which it is composed, agreeable to the Example given in the four first Bars.

To express a Major or superfluous Interval draw a dash through the figure thus $\mathfrak{Z}$. To exprefs a Minor or diminished Interval place ab before the figure thus bs.


Express the following Intervals in notes;
in the manner of the first three Bars.


In the following Exercises the Student is to apply to each Interval the Root from whence such Interval is derived, with its appropriate signature, as illustrated on Page 56 and then express the full Harmony of such Root in the middle line, as exemplified at the beginning of the first Exercise.

When an Interval is common to more then one Root, an additional note is occasionally introdu_ -ced in the middle line, or the Root required given in the lower, for the purpose of confining the Pupil to the Harmony preferred, and in cases where such guides are not afforded, the Harmony is to be regulated by the following general rules.

1 The first Harmony of each Exercise must be that of the Key.
2 Each Exercise must conclude with a perfect Cadence.
3 Every Dominant Harmony is to be succeeded by the Harmony of the Key unles any one of the notes given differs from such Harmony.

4 Simple Harmonys are to be preferred to Compound ones agreeable to the following order .

## Progression of Harmonys from Simple to Compound.

| Simple | Compound | Double Compound |
| :---: | :---: | :---: |
| $\mathbf{5}$ | $\mathbf{7}$ | 9 |
| $\mathbf{3}$ | $\mathbf{5}$ | $\mathbf{7}$ |
|  |  | $\mathbf{3}$ |
|  |  | $\mathbf{3}$ |
|  |  |  |

5 No Modulation is to be made by the introduction of a sound foreign to the Key established, un_ - less the Intervals given require it.

6 When any foreign sound appears among the Intervals, it requires a Dominant Harmony for its Accompaniment.

7 When the Dominant Harmony is used on the Key note or on the $3^{\text {rd }}$. of the Key such Key note or its 3 . must be written in the Roots and the Dominant placed over it, as exemplified in the se_ - cond Bar of Page 60.

The figures applied to several. Bars of the first four Exercises, shew by which of the above Rules their respective Harmonys are to be regulated.
Intervals


60 In these Ezercises the Student is recommended, first to write the denomination of each Interval over the Treble notes and then refer to Page 56 for the Roots of the following distances. $2^{\text {nds }} \mathrm{bb3} .4 \mathrm{t} . \mathrm{b5} . \times 6.7^{\text {th }} \mathrm{s}$






## A representation of all the ORIGINAL HARMONYS used in Com

## _position with the signatures of their ROOTS and INVERSIONS.

The figures over each of these Harmonys refer to the Page in which such Combinations have been treated of

|  |  | Simple |  |  |  | Compound |  |  |  |  |  |  |  | Double Compound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{cc}  & 88 \\ \text { N.9 } & 88 \\ \hdashline & \sim \\ 9 & 4 \\ \hline \end{array}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 67 | 3 |  |  | b7 |  |  |  |  |  |  |  |  |  |
|  | 4 |  |  | 5 | 6 |  |  |  |  | b 5 | ${ }_{3}^{4+}$ | 5 | 4 | 5 | 4 3 | 5 | ${ }^{6} 5$ | 5 | 6 5 |
| 3 | 6 |  |  | b3 | 6 | 6.3 | 6 | 多 | ${ }^{6} 5$ | b\% | 6 5 | $b_{3}$ | 6 5 | \% | 6 | 3 | b67 b 5 | 3 | b. 5 |
| $\mathbf{R}$ | 3 | $\mathbf{R}$ | $\begin{array}{r}5 \\ 3 \\ \hline\end{array}$ |  |  | R | b. 3 | R | $\stackrel{67}{\#}$ | R | b 7 | R | $b_{7}$ | R | 7 | R | 雱 | R | $\%$ |

The above Examples represent original Harmonys of three Clafses; 1. The simple Triad in its three different states, 2 . ${ }^{\text {. }}$ The Discord of the 7 and $b 7$ founded on the aforesaid Triads; 3 . The Discord of 9 and 69 founded on the Harmony of the b7. As the Discord of the 7 has for its basis the Harmonic Triad, this Triad is therefore termed the fundamental, or efsential Concord; and as the Harmony of the 7 is in the same manner the foundation of the 9 , the 7 is on that account term--ed the fundamental or essential Discord.

The general application of the above Harmonys in the Major and Minor Scales is as follows. N: 1 and 2 The Major and Minor Triad are used in various parts of the Scales as illustrated in the Exercises on Page 20 N. 3 The Imperfect Triad is used on the $7^{\text {th }}$ of the Major and on the $2^{\text {nd }}$. of the Minor Scale, in the Major Scale it is generally súcceeded by the Harmony of the $4^{\text {th }}$ of the Scale and in the Minor Scale by that of the Dominant.
N. 5 The Imperfect Triad with its' $7^{\text {th }}$ is applied in the same manner, as the simple Imperfect Triad
 N. $7^{7}$ The $\frac{7}{8}$ to the Tonic and $4^{\text {th }}$ of the Major and to the $3^{\text {r. }}$. and $66^{\text {th. }}$ of the Minor Scale N. 4.8 and 9 are Dominant Harmonys consequently applicable to the $5^{\text {th }}$. of their respective Scales only Altho the Signatures of the Inversions of the different Harmonys of the $7^{\text {th }}$ are many of them similar, they may easily be distinguished from each other by the part of the Scale which they occupy.

The Dominant Harmony with its diminished $5^{\text {th }}$. as illustrated on Page 53 might•have heen add_ _ed to the foregoing, but as it can but seldom be used with good effect, in any other state than that of its 2 nd Inversion, it does not seem suited to be clafsed with those which are of general appli_cation, on which account a distinct representation of this Harmony in its threefold state is here subjoined.


As from this Harmony in its most usual state of Inversion arises the Interval of $\mathbf{a} \times \mathbf{6}^{\text {th }}$. it is therefore by most Theorists denominated the Chord of the $\times 6$.th whatever sounds appear in Music different from these original Combinations are not to be considered as essential Harmonys; such sounds are
 denominated Accidental; or Irregular, and arise from these fundamental Chords in a way of Transi_ -tion, Anticipation or Suspension; of this description are to be considered the two Harmonys illustrated on Page 55 that of the Dominant Harmony on the Tonic and its 3. These two Har --monys are there exhibited in their Compound and Double Com: state and exemplified by Transi_ -tion, being an admissible licence used in passing from one regular Harmony to another, and although they are sounds too harsh for the Ear to dwell on, yet their aid in Music is important, as the desire they excite in the mind for a succeeding Harmony whereon the Ear can rest with satisfaction, gives to such Harmony when heard a consequence far beyond what it would other -wise possess; such indeed is the effect of Discords in general, but particularly of those whose com. -ponent parts are more than usually extraneous.

Before we proceed to a consideration of those Harmonys which arise in a way of Anticipation or Suspension of the original Chords, it is necessary to render a general knowledge of those already treated of more familiar to the mind of the Student, for which purpose the following Exercises are proposed.

6

## Essay XII

## On Accompaniment.

There are laws established in regard to the well regulating of Accompaniment which it is ne_ -cessary to bring gradually forward under the eye of the Pupil, these cheifly relate to the pro--gression which certain Intervals are required to take, and the consequent necessity of doubling: some sounds in a Harmony, and of avoiding the doubling of others. * The Intervals not per -- mitted to be doubled in Accompaniment on account of their predominant effect on the Ear are the sensible note or 3 . of the Dominant Harmony, and Discords in general; the occasional doub--ling of the Intervals cheifly arises from the progression or resolution of the Discords, most of which are required to descend. It is to the Discord of the $b_{7}^{\text {th }}$ alone in this point of view that the attention of the Student is requested in the following Exercises, the other Discords will be more particularly treated of hereafter. The underwritten Examples will afford an illustration of the present subject.

RULE 1. The sensible note must not be doubled. Exemplified at A.
RULE 2. The Discord b7 must not be doubled. Exemplified at B.
RULE 3. The Discord b7 requires a descending progrefsion(or resolution) to the nextHarmony $\mathrm{c}^{\circ}$.

Accompaniment

Harmonic Bass

Roots

A. The 3. of the Dominant Harmony being used in the Bass is omitted in the Accompaniment
B. The b7 on Dominant Harmony being used in the Bass is omitted in the Accompaniment .
C. The desscending resolution of $b 7$ and the consequent doubling of the 3 . in the next Harmony

[^11] decending progression

The Letters A.B.C. in the following Exercises refer the Student to such one of the forego_ -ing rules as is applicable to the Harmony so distinguished.

As the Dominant Harmony naturally requires the Harmony of the Key to follow it and there_ -by form a Perfect Cadence, whenever the Dominant Harmony is succeeded by any other than that of the Key, the Cadence is said to be interrupted, this may be done in various ways, some of which will appear in the following Exercises. The 6. Rule given on Page 59 is herein to be attended to that whenever a sound foreign to the Key appears, such sound must be consider_ed as a brầnch of a Dominant Harmony. Observe, the $\# F$ in the 9. Bar of the $1^{\text {st }}$. Exercise is not a foreign sound, but is the $\sigma_{0}^{\text {th }}$ belonging to the ascending order of the Minor Scale; this distinction must be made in all similar passages.

When two or more signatures are applied to one Bass it is to be understood that the Harmo_ -ny of such Bass changes, and therefore requires as many different roots, as there are different Signatures. The following Example will further illustrate this remark.


The Student is required to apply the Roots and Accompaniments in the following Exercises according to their signatures, in the manner illustrated in the first three Bärs, and to signify the modulations"used, by marking every Dominant Harmony with the Letter D, in the same man_ -ner as in the Exercises on Page 36. Harmonys having the Letter T placed over them are not to be considered as Dominants, but as transient Harmonys used by way of licence in pafsing. from one Harmony to another; the nature of these Combinations will be more fully explained hereafter.



In order to obtain further opportunity of exercising the foregoing Harmonys the Student may transpose these Exercises into other Keys, the method of doing which forms the Subject of the next Essay.

## Essay XIII

## On Transposition.

I ransposition is the art of transferring a piece of Music from its original Key to some other of the same species, and has its use both in Vocal and Instrumental Music, in the former the Accompanist is thereby enabled to accomodate the particular compass or powers of the Singer, by accompanying the Piece in such Key as may be best suited either to display the excellencies, or conceal the defects peculiar to the voice of the Performer. In Instrumental Music it frequent_--ly happens that the parts to be performed by particular Instruments such as Trumpets, Horns, Clarinetts \&c. are on account of the peculiar nature of such Instruments, printed in different Keys from the other parts of the Score. To give the general effect of an Instrumental piece on the Piano Forte all the prominent, or leading parts of the Composition must be heard, and when such parts are found in those staves of the Score which are appropriated to the above mentioned Instruments, recourse must be had to the aid of Transposition, for the purpose of reducing all the parts to one Key, of this the few following Bars will afford an Example.


In the above piece three different Keys appear:in the Score the Trumpets and Horns being in C, the Oboes and Clarinetts in $\mathbf{F}$, and the Bassoons in $\mathrm{b}_{\mathrm{E}}$, all of which are reduced to one Key (that of $b E$ ) by means of Transposition for the Piano Forte as is seen in the lower line...

It is to be observed that no piece of Music can be transposed into a Key of a different spe_ cies from that of its original, without an entire change of Character being produced thereby; thewefore by Transposition is only to be understood the transferring of a Piece from one Major Key into another Major Key, or from one Minor Key into another Minor Key, the different order of the Major and Minor Scales preventing the Transposing of a piece from one Species to the other. Transposition may be made by two different methods equally simple and easy in their application, First, by observing that every note of the transposed copy, bears the same relation to its Tonic, that its correspondent note in the original bears to the original Tonic. Secondly, By making every succeeding note of the transposed copy stand in the same relation to its preceding note, that such relatives bear to each other in the Original.

## First Method.

Original in G Key


Transposed Copy in C Key


Second Method.
Original in G Key


## TransposedCopy in C Key <br> 

The figures used in the first Example shew the distance of each note of the Air from the Key note. The Letter K. signifies Key note.
In the second Example the Letter T. signifies that the note over which it is placed is one Tone distant from the preceding note.
The Dot placed over the Letter (thus $\dot{\mathbf{T}}$ ) signifies that the progression is ascending, when placed under the Letter that it is descending.
bS signifies Semitone Minor. of Semitone Major.

## EXERCISES on TRANSPOSITION.

The Student is required to Transpose the following Air into the different Keys underwritten.

## First Method

The figures applied to the several notes shew their relation to the original Tonic which fi --gures being copied into the following Exercises, will be the Pupils guide for proceding, as illus. -trated in the Exercise in G Key.

## Second Method

The Exercises on this side are to be writter according to the second rule, by copying the distance, in which each note stands related to its preceding.




The 4 Exercises in the Keys of $F, b_{B}$, b E , and $^{\prime} b_{A}$,shew that a Sharp when transposed will in cer_tain Keys be represented by a natural, and a natural by a Flat.

## Essay XIV.

## On the method of ANALYZING a COMPOSITION.

Before we proceed further it seems necessary to afford the Pupil additional means of familiari--zing the clementary parts of the Science already communicated, this will be best done by point .. _ing out the method by which the various parts of a Composition however complex or multifari_ -ous in their construction, may (if regularly formed) be reduced to their first principles; by which it will appear that all the diversity of effect produced in the several compositions of different Composers, arises only from giving different forms to the same radical Elements of the Science. This Exercise will improve the Students aquaintance with all the original Harmonys however ob --scured, or varied they may be rendered in their appearance by the art of the Musician, and by an habitual attention to the different methods in which elegant Composers treat them, a degree of Taste may be acquired in the execution of good Music in regard to particular Emphasis of Ex--pression as well as general energy in effect, that cannot fail to interest the minds of hearers in its favor . It seems necessary, to remark that sounds have the same variety of force and con_ -nection in their Harmonic sense that words have in their Grammatical construction, Music is a language, which as much as any other addrefses itself to the pafsions of men tho all are not equal_ -ly susceptible of its effects; It, like other languages possesses its essential as well as relative terms, or parts of Speech, and admits of both a Prosaick and Rhythmical construction; this analogy will (as far as useful) be more fully explained hereafter. The Harmonic or Grammatical con. _struction of the following Exercises is formed of two Terms, Essential sounds, and Copulatives or occasional sounds, the former make a constituent part of some original Harmony, the latter have no part in the Harmony, but are occasionally useful in uniting of those which have, they are in gene_ _ral denominated Transient notes, of which an Example has before been given (see bottom of Page 41) It is to a discrimination of these sounds that the attention of the Student is invited in the following Exercises.

## Analysis of Composition.

Each Bar of the following Airs is formed of one Harmony only, the Root of which the Student is desired to express in the bottom Line. The fifth and seventh Bar of the first Part, and seve_ral more in the second Part, give an example of Transient sounds used in turn with Harmonics, these are to be distinguished by crosses in the manner exemplified.

The Harmonic Basses marked thus $v$ are to be figured according to their distance from the Roots. The Harmonys according to Rule 4 Page 59 are to be resolved into their most simple state.

Harmonic Basses

## Roots

| \%3>0, |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1: |  | - : | $\rightarrow$ |
|  |  |  |  |  | 8. |  | \% |
| ${ }_{3}^{5}$ | ${ }_{3}^{5}$ | ${ }_{3}^{5}$ | ${ }_{3}^{5}$ | ${ }_{3}^{5}$ | ${ }_{6}$ |  |  |
| \%\% |  | ) | $\bigcirc$ | $\bigcirc$ | - |  |  |




The following Examples afford a greater variety of Harmony.



## Essay XV.

## On Irregular Harmonys.

Having fully illustrated all the Regular or Original Harmonys used in Composition, we now proceed to the investigation of those which are deemed Irregular, or Accidental; these as before observed arise from the former in a way of Suspension, Anticipation or Transition.
Suspensions are produced by prolonging the sound of one Harmony, till it forms a part of the next, by doing of which a branch of the second Harmony is retarded, or in the language of Musicians, Suspended. The following Examples will illustrate this operation.

## Example 1.



This Example shews the Retardation or Suspen sion of the $8^{\text {th }}$. which is produced in the following manner. The upper note in the second Harmony of the Bar is prolonged so as to form a part in the next Harmony wherein it occupies that place which would otherwise be filled by the $8^{\text {th }}$. The $8^{\text {th }}$. be_ _ing thereby retarded till the last part of the Bar, occasions this operation of Harmony to be dino_ -minted the suspension of the 8 . The 8 . is in this case said to be retarded by the 9 . because the note $A$, which is prolonged from the second Harmony, and occupies the place of the $8^{\text {th }}$ on the third Harmony forms a $9^{\text {th }}$. to the Bass.

## Example 2.



This Example shews the suspension of another part of the Hamonic Triad, that of the 3 . The upper note in the second Harmony of this Example is prolonged so as to form a part of the next Harmony, wherein it occupies that place which would otherwise be filled by the $3^{\text {rd }}$. the $3^{\text {rd }}$. being thereby retarded till the last part of the Bar occasions this operation of Harmony to be denominated the suspension of the $3^{\text {rd }}$. The $3^{\text {rd }}$. is in this case said to be retarded by the $4^{\text {th }}$. because the note C, which is prolonged from the second Harmony and occupies the place of the $3^{\text {rd }}$ on the follow _ing Harmony forms a $4^{\text {th }}$ to the Bass.

## Example 3



As there are three sounds employed in the Hear_ -ionic Triad, it is capable of three suspensions but as the remaining one illustrated in this Example (that of the $5^{\text {th }}$ ) exhibits only an Harmonic con -
ftruction similar to the first Inversion of the Triad it need no further explanation.

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The Triad admits of having its 8 . and 3 . suspended in a manner different from the forego. -ing Examples. The former Suspensions are said to be from above, because the Discords which suspend the 8 . and $3^{\text {th }}$. are one degree above the Intervals which they suspend, being the 9 . and $4^{\text {th }}$. These two Intervals are equally capable of suspensions from below, which operations takes place when the Discords which suspend the 8 . ${ }^{\text {th }}$ and 3 rd are one degree below the Intervals suspended, as may be seen in the following Examples.


Suspension of the 3 . ${ }^{\text {rd }}$ from below


The HarmonicTriad admits likewise of being suspended in the Bass.


The Harmonic Triad admits of Suspensions on its Inversions as well as on its Root which the following Examples will illustrate.


Suspension of the $8^{\text {th }}$ from above on the $1^{\text {st. }}$ Inversion of the Triad being. the suspension of the original $3^{\text {rd }}$.


The suspension of the $5^{\text {th }}$ from below is not used.

Suspension of the $6^{\text {th }}$. from belowon the $1^{\text {st }}$. Inversion of the Triad being the suspension of the original $8^{\text {th }}$.


Suspensio of the $8^{\text {th }}$ from below on the $1^{\text {st. }}$ Inversion of the Triad being the suspension of the original $3^{\text {rd }}$.


Examples of Suspension in the Triad on its 2 . Inversion.

original $8^{\text {th }}$.

Sus. of $8^{\text {th }}$. from above

original $5^{\text {th }}$

Sus. of $6^{\text {th }}$ from above

original $t^{\text {rd }}$

Sus.of $4^{\text {th }}$ from below

original $8^{\text {th }}$.

Sus. of $6^{\text {th }}$.
from below

original $3^{\text {rd }}$

Suspension in the Bass.

## A General view of the foregoing Suspensions

 of the HARMONIC TRIAD on its ROOT and INVERSIONS.Suspension of the 3 . from above.


Suspension of the $5^{\text {th }}$ from above.


Suspension of the $8^{\text {th }}$. from above.


Suspension
of the Bass.


Suspension of the $3^{\text {rd }}$.
from below.


Suspension of the $8^{\text {th }}$.
from below.


There are many Harmonys in the above Examples which resemble the original ones be -fore treated of, nor can the difference at present be made to appear, as it relates to those laws which regulate the Progrefsion of Roots; when these are explained it will be seen that the Har --monys alluded to cannot be essential ones, as the Progression they would make in sucth case is disallowed :

## Essay XVI.

## On the Preparation and Resolution of Discords.

Discords tho' in general from the nature of their construction, too harsh and disagreeable to be heard alone, yet when judiciously connected with Concords, are the means of furnishing that variety of effect in Harmony, without which it would be insipid and uninteresting.
In order to correct the harshness attending most of these combinations, the laws of Music require them in general to undergo an Harmonic process so calculated to meliorate their natural crudeness, that instead of disgusting the Ear they are thereby renderd harmonious and gratifying. This qualifycation arises from a double operation of Harmony, the $1^{\text {st }}$ termed Pre. paration the $2^{\text {nd }}$. Resolution. The preparation of a Discord consists, in making the same note which forms the Discord in one Harmony, stand in the relation of a Concord in the Harmony immediately preceding it, thus in the following Example of the suspension of the $8^{\text {th }}$. by the $9^{\text {th }}$. the note A which makes the Discord 9 on the second Harmony, previously forms the Concord of the $3^{\text {rd }}$. on the Harmony immediately preceding it, \&o by by means a closer con nection is made between these two Harmonies than and the Discord thereby so qualified, that when heard,
 would otherwise subsist, its effect is rich and harmonious instead of being sudden and harsh* The Resolution of a Discord is that operation of Harmony which regulates its progression, and requires it to move by a Diatonic degree into the following Harmony, this degree is either ascending or descending according to the nature of the Discord, as seen in the following Example. and Resolution admit of certain exceptions which will be given in their proper place.
 The rules of Preparation as well as modifications

There are particular cases in which some of the Intervals hitherto treated as Concords become Discords, and undergo Preparation and Resolution, whenever it happens that any two Intervals or parts of a Chord stand in a Diatonic relation(that is in the connection of a Tone or Semitone)whither in its original or inverted state, one of such Intervals is always considered and treated as a Discord, there are two causes which occasion Concords thus to change their denomination and to become, Discords, Suspension; and Inversion, which the following Examples will illustrate.


In the $\mathbf{1}^{\text {st }}$. of these Examples the Interval 4 being combined with the 5 to which it stands in the re lation of a Tone, denominated a Discord, th is 4 th arises from Suspension and in that respect differs from the $4^{\text {th }}$. which is formed by the $2^{\text {nd }}$. Inversion of the Triad as illustrated on Page 26. a general rule for deciding the nature of the $4^{\text {th }}$ is, that when it is an Inversion of the $5^{\text {th }}$. it is a Concord, but when a $4^{\text {th }}$. to the Root it is a Discord. In the $2{ }^{\text {nd }}$. Ex: the Interval 5 being combined with the 6 becomes a Discord; in the $3^{\text {rd }}$. Ex: the Interval 3 being combined with the 4 ,is treated as a Discord.

[^12]
## EXERCISES onSUSPENSIONS.

The following Examples afford further illustrations of the foregoing Suspensions, in their Original and Inverted state, with their Preparations and Resolutions. The Student is required to apply Signatures to these Harmonys, suited to express all the notes contained therein; a parallel line is to be drawn from the figure which denotes the Preparation, to that which ex -- presses the Suspension, and continued from thence to the Signature of the Resolution.

The figures expressing the other parts of the Harmony are to be placed immediately over the Bass note, and between the Suspension and Resolution in the manner illustrated in the first Exercise.

The Letter P. denotes Preparation.S.Suspension, and R.Resolution.
Suspension of the 3 rd from above, on the simple Dominant Harmony, Prepared on the Harmony of the Key.


Fill up the following Exercises in the same manner as the above.


Suspension of the $5^{\text {th }}$. from above on the Dominant Harmony, Prepared on the Harmony of the Key.




Suspension of the 8 from above on the Key, Prepared on the Dominant.


Suspension of the $3^{\text {rd }}$ from below on the Key, Prepared on the Dominant.


Suspension of the $8^{\text {th }}$ from below on the Key, Prepared on the Dominant.


## DOUBLE SUSPENSIONS in the TRIAD.

Two parts of the Triad may be suspended on the same principles as the single Suspen --sion, which the following Examples will illustrate.

Suspension of the $3^{\text {rd }}$ and $8^{\text {th }}$ from a -bove on the Key. Prepared on the Domt


Sus: of the $5^{\text {th }}$ and $3^{\text {rd }}$ from above.


Suspension of the $3^{\text {rd }}$. from above and the $8^{\text {th }}$. from below.


Sus: of the $3^{\text {rd }}$ and $8^{\text {th }}$ from below.


1 Suspension in the Treble, and 1 in the Bass.


## EXERCISES on DOUBLE SUSPENSIONS.

The Sitident is required to fill up the following Exercises according to the manner exemplified.

Dosthle Suspension of the $3^{\text {rd }}$. and $8^{\text {th }}$. from above, in the Triad; Prepared on the Com_ pound Harmony of the Dominant.


Suspension of the $5^{\text {th }}$ and $3^{\text {rd }}$. from above in the Triad, Prepared on the Harmony of the fourth of the Key.


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Suspension of the $3^{\text {rd }}$. from aloove and the $8^{\text {th }}$. from below: on the Harmonv of the Kev, $\because$ Prepared on that of the Dominant.


Suspension of the $3^{\text {r. }}$ and 8. from below on the Key. Prepared on the Doninant.



Triple Suspensions are occasionally introduced on the Triad.


The Student is required to figure the above Example according to the nature of the Sus -- pension.

The Student is required to figure the following Examples according to the nature of the


Suspension in the Bass.
Double Suspensions.


All the above Suspensions may be used in various positions of the Harmony. The triple Suspension cannot be applied on the $1^{\text {st }}$. Inversion of the Dominant without transgressing some one of the Rules of accompaniment.

Suspensions are occasionally used on other Compound. Harmonys likewise on Double Com_ -pound, but the foregoing Examples will be found sufficient to illustrate the nature of all.

The former Exercises exhibit the suspensions and resolutions on one continued Bass the following Examples shew the suspension and resolution on different Basses.


No 1 \& 2 shew the Res: on a different part of the same Harmony. No. 4 \& $\tilde{5}^{2}$ shew the Ress on a different root $N_{0}^{\circ} 6$ a Qaudruple suspension. NO $7 \& 8$ Quadruple Suspensions iń which one Interval is suspended in two ways at the same time. No 9 \& 10 Examples of suspensions prepared on Transient sounds.a more particular explanation of the nature of these two last Examples will be fcind in the following page.

# Essay XVII. <br> <br> On Transition. 

 <br> <br> On Transition.}

A species of Harmony different from either of those before illustrated arises from the use of such intermediate notes as are introduced between regular Harmonys; these are de -nominated Transient, and are of the same nature as those before exemplified in way of melody af the bottom of Page 41. when these notes are united with Harmonic combi--nations they produce Transient Chords. Transient sounds are of two descrip--tions, Regular, and liregular, when the Transientores are placed on the first part of the Essential Harmony, the Tran ition is termed Irregular, when placedon the later part of the Essential Hatmony ft is termed Rexular, which dictinction the following Examples will be found to illustrate.

Examples of Essential Harmonys


Essential


- The above Examples described iwith passing notes in Regular Transition.


Irregular


The Character used by most Composers for denoting Irregulal $T_{\text {ransition }}$ is which is placed over the Transient note (in the manner expmplificd aloore) by which it is ciznified that such note is to be accompanied with the Harmony of the Essential sound following it The following Examples illustrate the nature of Trancicnt Chords.


When the Transient sound forms a part of an Harmonic combination in the manner of the above Examples, it is considered either as Regular or Irregular according as the part of the Bar which it occupies is either accented, or unaccented, if it lies on the accented part of thé Bar the Transition is Irregular, if on the unaccented it is legolar, which remark will deter. - mine the, nature of the above Transitions, it to be noticed that no sound merelya Transi. _ent, affects the Root of the Harmony on which it is introcivecd.

[^13]
## Essay XVIII.

## On Anticipation.

Anticipation is an Operation of Harmony seldom used, therefore little need be said in respect of it. It arises by introducing in one Harmony, a part of the succeeding. The following Examples will for the present sufficiently illustrate its nature.


In the last Bar of Example 1.it is to be observed, that there are two Essential Harmonies in the Treble, but that a branch only of the last is used in the Bass, the striking of which Bass note against the first Treble, and retaining it on the second, forms an act of anticipation with its Resolution.
The $2^{\text {nd }}$. Example exhibits another act of anticipation produced by giving half the time of the first note to the Harmony of the second and proceeding in the same manner through the Passage.

Having now illustrated all the Harmonies used in Composition, both in their Original, Inver--ted, and Accidental order, the following part of this work will gradually open to the Student the most approved manner of treating them in a way of Accompaniment, previous to which the following remarks may be useful.
Some Authors use an arithmetical series of figures in Thorough Bass, to signify that the sounds thereby expressed are to be played without the addition of any other part of the Har--mony; and that the position of the notes is to be that which their correspondent figures describe.


The Imperfect Triad is by some Authors marked $\stackrel{\curvearrowright}{5}$.

## Essay XIX

## On the Progression of Melody.

The Art of Accompaniment consists in a judicious distribution of the several parts of the Har--mony, and in so conducting them as to gratify the Ear with an agreeable and well connected melody; the chief guide to which, will be found in the following rules which respect the pro --gression of the upper Intervals. There are three Progressions by which all Harmony is regulated.

## Similar, Contrary and Oblique.

The Progression is said to be Similar, when both parts ascend or descend at the same time. The Progression is Contrary, when one part ascends and the other descends.
The Progression is Oblique, when one part is stationary and the other in motion.
Examples of the three


Of these Progressions the Contrary is the most general, as it produces more variety than the two others, the Similar progression is limited in its use on account of its causing disagreeable and forbidden successions of sounds, these prohibited successions by similar motion are Perfect $5^{\text {ths }}$ and $8^{\text {ths }}$ the former of which are never admitted in well regulated Compositions, and the latter only when the whole of a passage moves in $8^{\text {ths }}$ for the sake of some particular effect.

Example of forbidden The former Example cor $5^{\text {the }}$ by Similar motion. -rected by contrary motion.



The former Ex:corrected by Contrary motion.


These prohibited successions are at present to be considerd only in regard to the extreme parts of the Harmony, that is, the proportion which the upper Intervals of the Accompaniment bear to the Harmonic Bass; these upper sounds form the melody, and therefore require the skill of the musician, to be more particularly employed towards furnishing it with all the well regulated variety which is essential to the construction of good Air, each subordinate part requires a due re-- gard to be had towards a just distribution of its sounds, but the attention of the Student will not be invited to these interior Intervals of the Harmony, till the next Essay is proposed.

EXERCISES on false progressions of PERFECT CONCORDS


The Melody of the above Exercise affords many examples of false progressions，in otder to discover which，the Student is required to figure all the upper Intervals of the Harmony according to their distance from the Bass，in the manner exemplified in the first Bar，and then proceed to write an example of the same Harmonys in correct progression，in the Line be，


## Complete Exercises on Thorough Bass．

Most of the following Exercises are extracted from the Compositions of CORELLI，an an－ ＿tient classical Author，celebrated for the rich variety of his Harmonys，the flowing progressi－ ＿on of his Basses and the melodious chasteness of his Air．These Exercises afford various examples of the foregoing Suspensions，as well as every other Harmonic combination．

## Rules．

The Roots are to be written in the under Line with their appropriate Signatures． All the Harmonys signified by the Signatures of the Harmonic Basses are to be written in the upper line；such Basses as have no Signatures are Roots．
The upper notes of the Chords should move in Diatonic order as much as possible，except where such order would occasion any disallowed progression in the Melody，in which cas ： skip may be be made to a more distant Interval provided such Interval is not a Discurd；à skip may likewise be made after a Cadence，or in order to prepare a Discord；of whict the $2^{\text {nd }}$ and $4^{\text {th }}$ ．Bar of the first Exercise afford examples．see $⿻ 丷 木$
Imperfect Concords in the melody are preferable to Perfect，as far as they contribute to agreeable air．All the Discords in these Exercises require a descending progression．
The sensible note（that is the Major $3^{\text {rd }}$ ． in Dominant Harmony）requires an ascending progres －sion．Notes are occasionally given in the Treble to regulate the progression of the Melody．
The numbers placed over particular Harmonys refer the Student to former Pages of this work wherein such Harmonys have been particularly treated on．
Each Exercise must begin with a perfect Concord in the melody．The last Cadence of every Exercise requires the $8^{\text {th }}$ on the Key note to be used in the melody．see the last Bar of $1 \stackrel{\text { st }}{\text { st }}$ Exercise．
${ }^{90}$ Éxercise I. The Student may refer to the general Indes on Page ( ${ }^{*}$, 62 for an illustration of any Harmony reqivired:


## Exercise II.





The Concords 4 and 5 are always to be written in their perfect degree, unless a super-
-fluous or diminished Character is annexed to them.

## The following Exercises afford various Examples of Transition. Regular and Irregular.

All the Bass -notes without signiatures are either Harmonics, or Transient notes, such as have the sign of Irregular Transition over them $(\cdot)$ take the Harmony of the Bass following them, the rest belong to the Harmony immediately preceding.
The Student is directed to place a + over such Bass - notes as move in Regular Transition, in the manner exemplified in the first Bar.
The Letter $\mathbf{K}$ denotes a Modulation into a new Key by means of a Dominant Harmony; which Key the Student is to signify, in the manner exemplified in the $5^{\text {th }}$. Bar.
The Discord 7 is frequently used without preparation, of which see an Example at the end of the $6^{\text {th }}$ Bar.
An exception to the general rule of resolution is made by the Discord remaining stationary, and in so doing becoming a Concord to the next Bass; of which see an Example in the $6^{\text {th }}$. Bar; various other Licences are admitted in the resolution of Discords, which will speedily be brought forward.
The production of agreeable Melody is to be the constant aim of the Student, therefore when--ever a skip contributes more to variety and good Air, than a strict adherence to Diatonic pro--gression, such skip is performable, provided no disallowed progression is thereby made.

## Exercise IV.





## Extercise V.





In strict Compositions not only successions of direct $5^{\text {th s }}$. and $8^{\text {th s }}$ by similar motion are forbid, but likewise such progressions of sounds as would produce them were the intermedi_ -ate space formed by the extreme Intervals of one part filled up in Diatonic order, $5^{\text {the }}$ and $8^{\text {th s }}$. if found to exist in such manner are said to be Hidden.
These progressions are most exceptionable when they are formed by the extreme parts of the Harmony .


EXAMPLE of a Progression wherein is contained Hidden $8^{\text {th s }}$.
 The Hidden 8 the of the former Examples made to appear by fill -ing up the intermediate space between the extreme Intervals.


Tho a succession of Perfect $5^{\text {th s }}$. are disallowed by similar Progression, Imperfect $5^{\text {th s }}$. are admissible in succession; an Imperfect $5^{\text {th }}$ may likewise follow a Perfect $5^{\text {th }}$ but a Perfect $5^{\text {th }}$ is not allowed to follow an Imperfect, by similar motion, because were the intermediate space to be filled up two Hidden $5^{\text {th s }}$. would appear which the following Examples will il. -lustrate.


Even the successive $\boldsymbol{5}^{\text {the }}$. which are allowed, are better in three or more parts, than in two, only:

## Essay XX.

## ON THE PROGRESSION OF INTERVALS IN GENERAL.

Harmony is unlimited with respect to the number of parts in whichit may be used,itmay be in two, three, or more according to the style of the piece or the intention of the Com -*-poser, which the following Examples will illustrate.


Tho following $5^{\text {ths }}$. and 8. are forbid in the same part, yet they are not disallowed when in different parts.


This Exercise contains a variety of false Pro--gressions of $5^{\text {ths }}$ and $8^{\text {ths }}$. in the same part.

The Student is here required to correct the faults of the former Example.


When the Harmony consists of more than four parts the progression of the interior parts is not so strictly limited．

Successive，4 th by similar motion are disallowed in two parts，onaccount of their disagree－ －able effect，but are not objected to in three，or more parts．


False Relations are likewise to be avoided；the disallowance so denominated，arises from making the same note natural in one part of the Harmony，and Sharp or Flat in another part， either together or in immediate succession，as illustrated in the above Example，this restricti－ on only applies to essential Harmony，Transient Intervals of such description being an excep＿ lion，which see above at $⿻ 丷 木$

The Progression of Intervals is regulated two ways，first according to the nature of A the Intervals themselves，secondly，according to the number of parts of which the Harmony consists．The following，Rules shew what Intervals are required to ascend，what to descend， and what are unlimited in their progression．
＊．An Example of the regular Progression of the Intervals contained in Dom Harmony Double Compound．

5）Unlimited．
＊－This Interval must ascend－
G Root leads to the Harmony of the Key

b．9）This Interval must descend

：

## LICENCES admitted in the PROGRESSION of HARMONY

Certain Licences are allowed in Composition in regard to the Preparation and Resolution of Discords, which form exceptions to some of the foregoing rules .

LICENCE 1. A Discord may ascend to a branch of its Harmony before it de _scends for its Resolution.

2. The Discord of one note may be converted into that of another be_ -fore it Resolves.


3 The Bass may take that note on which the Discord should resolve :in the upper part, in which case such Discord is permitted to take an irre --gular Progression.

4. The General Rule requires Discords to be Prepared, and Resclved in the same part, yet a Discord may sometimes be transferred from one part of the Har --mony to another, before it resolves.

6.The Dom. Hary is not only per--mitted to be used in all its various forms without Preparation, but is allowed to stand in the place of a Concord and prepare a succeeding Discord.
 Disco
7. A Discord may remain stationary and in so doing form a Concord in the next Harmony.

5. A Discord may move to various parts of its Harmony before it resolves


8 For the sake of Chromatic Progression such Intervals as should descend, are permitted to ascend, and such as should ascend, to descend.


The Discord 7 is in many cases permitted to be used without Preparation.

## ON THE DISTRIBUTION OF INTERVALS IN TWO, THREE, FQUR OR MORE PARTS.

It is obvious that when Harmonys are only used in two parts every Harmony is incomplete, when in three parts that Triads may be complete but that Compound Harmonys mustbe incom--plete, but that when in four, or more regular parts every Harmony may not only be complefe, but that the Triads must have some one or more of their Intervals"doubled, this will be fur ther illustrated by the following Examples.


The figures and the word Root placed under the Bas's notes of the 1. Example shew what part of the Harmony is omitted. In the $2{ }^{\text {nd }}$. Example are seen two Compound Harmonys. in each of which the Root is omitted. In the ${ }^{\text {rd }}$. Example the figures shew what Intervals are doubled.

To afford the Student further assistance in the well regulating of Harmony in two, three four or more parts, the following directions are subjoined, which point out what parts of a Harmony may be doubled and what omitted when circumstances prevent the use of them in a complete fórm.

## HARMONIC TRIAD

5 may be doubled
3 may be doubled
Root may be doubled

## DOMINANT HARMONY $\mid$ IMPERFECT COMPOUND HARMONY

b7 should not be omitted
5 may be doubled S should neither be omit. -ted nor doubled Root may be doubled
b7 should not be omitted
5 may be doubled.
b3 (may be doubled (may ascend ..
Root may be doubled

It is to be observed that such Intervals as claim an absolute Progression must not be doub--led, as the so doing would occasion two 8 . and that when a sound unlimited in its progres_ -sion is doubled, its duplicate must take a different direction.

Transient Intervals must not be doubled .

## 100

A further illustration of Harmonies arising from Anticipation. Anticipation (as has been already observed on Page 87) arises by introducing on one Harmony a part of the succeeding.

## VARIOUS EXAMPLES of ANTICIPATION.

Anticipation of the $3^{\text {rd }} \& s^{\text {th }}$ of the Dominant on the Harmony of the Key.


Triple Anticipations of the Key


Double Anticipations of the Harmony of the Key on the Dominant.


## Anticipations in the Bass.



Examples of various Suspensions and Anticipations of Harmony.


Various Exercises on the Accompaniment of the Major and Minor Scales, in which all the former Harmonys are further exemplified.
These Exercises are to be filled up according to the rules before given in the manner of the $3^{\text {rd }}$ Example on Page 99 .
A Diatonic Progression in the melody is to be preferred, tho a skip may occa sionally be made in order to prepare a Discord.
If necefsary, the melody may occasionally descend below the $2{ }^{\text {nd }}$ Treble, and the $2^{\text {nd }}$. Treble below the 3 .
The same note (or Unison) may occasionally be used in two different Parts.


[^14]

## 102

The Descending Major Scale.


The Ascending Minor Scale.


Descending Minor Scales.


## Cromatic.



## 104

The following Examples were written by a late eminent clafsical Composer, by put_ ting of which into diftinct and regular parts, the Student may make further improve_ ment.


 $\%$




[^0]:    * This and other schemes useftin the following pages are not intended as Diagrams exhibiting a mathematical proportion of sounds (as it is well known that Keved.Inftruments on the present Construction, are incapable of exprefsing founds on foch principle) bit as Illuftrations best fuited to the nature of the Inftrument, as till as that of the prefent work.
    G.A.1:

[^1]:    * It is recommended to the student to write the following Exercises at the Instrument. If the Exereqiss in which double Characters are introduced are found to perplex the Student they may for the present bexpassed by.

[^2]:    * This is evident from the tremor which founding bodies when caufed to vibrate communicte to diftult oni...

[^3]:    his is "vident from the tremor which founding bodies when canfed to vibrate communicte to difam oming

[^4]:    * Where it necefsary to urge any thing further in favor of admitting this as a radical principal, we might do it on the ground of universal experience, which proves the peculiar aptitude our organs have for relishing this order of founds, which organs communicate a greater or lefs degree of pleafure to our minds, in proportion as the farmony which affects them is more or lefs connected, on the principle herein propofed: These effects we are hound to: afcribe to the unfpeakable goodnefs of the Great Creator of nature, who has so regulated all his works both for the corporeal and intellectual enjoyment of man that every object of fenfe is endowed with qualities proculiarly fuited to "the gratifying of 1 t ; and of properties, which the mind may receive equal pleafure in investigating.

[^5]:    $\dagger_{\text {A }}$ Minor $6^{\text {th }}$ is a distance composed of 3 Tones and 2 Semitones
    +A Perfect $4^{\text {th }}$ is a distance composed of 2 Tones and 1 Semitone
    +A Major $6^{\text {th }}$ is a distance composed of 4 Tones and 1 Semitone

[^6]:    
     may 1 rerador.
    

[^7]:    ※ This ascending serenth of the Scale is denominated the sunsible note as it prepares the Ear for, the Toule.

[^8]:    ※. To this Signature many Theorisits add a 6 . thus
    $\oplus$ An illustration of this Harmony will be found on Page 50

[^9]:    

[^10]:    A This Harmony is universally denominated the Chord of the $11^{\text {th }}$. Most Theorists when treating of it have followed the plan first introduced by Mons. RAMEAU of substituting supposed or artificial Bafses in the place of radical ones, agree--able to which false principles they thus define the Harmony in question "The Chord of the $11^{\text {th }}$ arises from that of "the Dominiant by taking a $5^{\text {th }}$ below its Fundamental sound for the Bass. Ex
    B This liarmony is likewise on the same principle defined to be the Chord of the $13^{\text {tho }}$ or Major $7^{\text {th }}$. arising from the Marmony of the Dominant by the supposition of a $7^{\text {th }}$ below its fundamental sound Ex
    But as the supposing of a sound to exist below that denominated the fundamental or radical sound is admitting into a system established on mathematical laws, a principle subversive of its foundation, it does not seem requisit. io offer ally apingy for pursuing in this Treatise a different path; as the mode preferred has for its basis, the first and leading princxple of all natural resonance, as illnstrated on Page 16.

[^11]:    * By progrefsion is signified that particular course which sound take in a Composition

[^12]:    * In florid Composition this operation of Harmony is frequently set aside, and the Discord used without preparation, sometimes as an Apogiatura, and sometimes as an essential sound, but in the slow and solemn stile it is requisite, nor can the law of Resolution be dispensed with in any style without of fence to the Ear.

[^13]:    When a parallel lifie is drawn from one Marmony over sevplfollowing votes it sugitfin that tive "all the libe sam" Acrompaniment.

[^14]:    *As in applying the signatures in these Exercises the Student may sometimes be at a lofs how to distinguish the Interval 9 from that of the $2^{\text {nd }}$ it will be necefsary in such case to resulate the signatures in question by the foliowing rule. When this Interval is found in its lowest denomination, (that is in the relation of a Tone or Semitone to the Bass) it is always treated as a $2^{\text {nd }}$ so likewise when it is a suspension of the $3^{\text {rd }}$ or when it arises from an Inversion of the Compound Dominant Harmony. But when it is a Suspension of the 8 or the extreme Interval of Double Compound Harmony it is treated as a 9 . this distinction wil be further elucidated by the following Examples.

