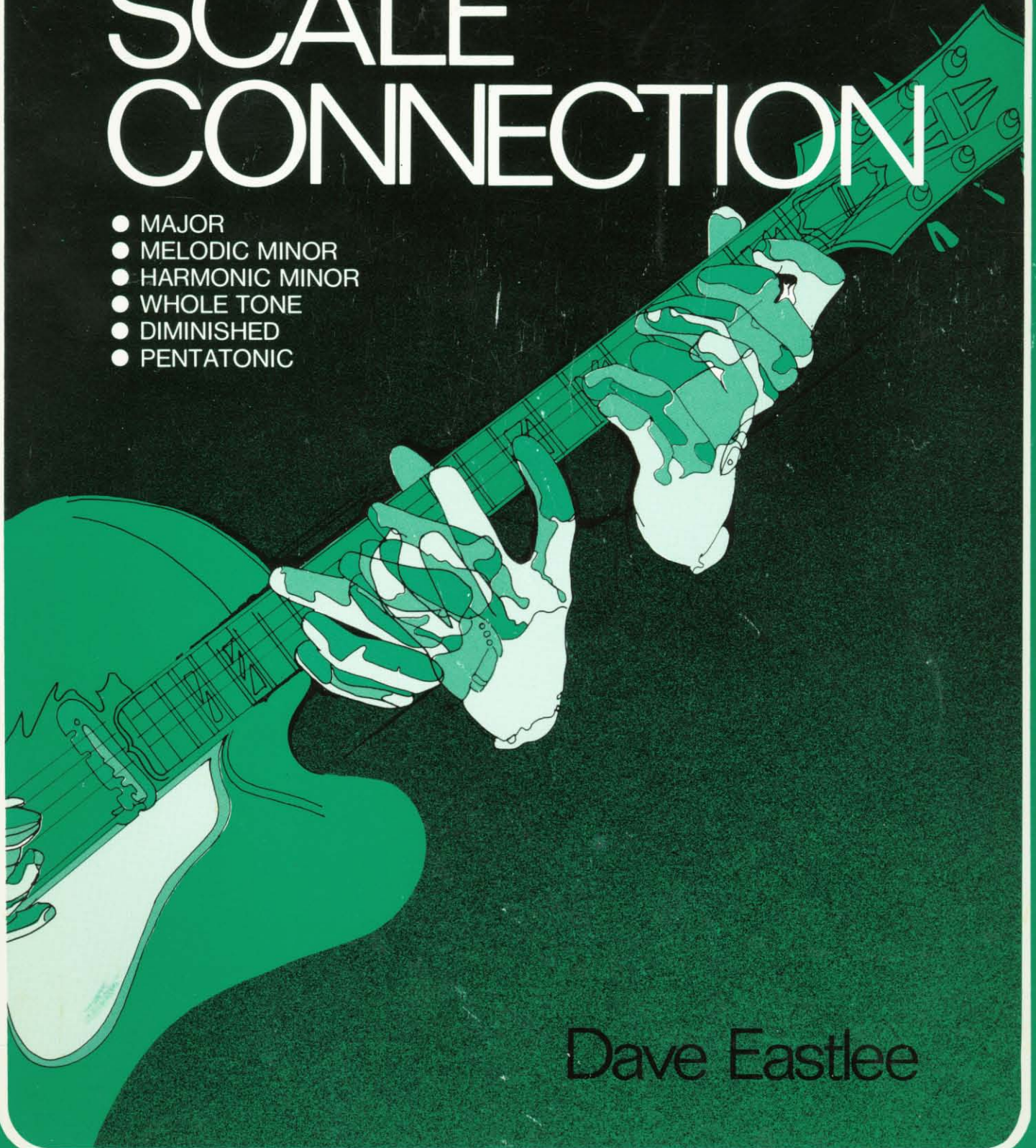




SCALE CONNECTION

- MAJOR
- MELODIC MINOR
- HARMONIC MINOR
- WHOLE TONE
- DIMINISHED
- PENTATONIC



Dave Eastlee



SCALE CONNECTION

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INTRODUCTION

The format of this book is designed to familiarize you with both scales and chords through Scale-Chord combinations. By memorizing Scale-Chord combinations, you will learn a scale pattern for each chord form, which will enable you to visualize each scale pattern in each of its harmonic possibilities. In order to encompass the entire fingerboard, the Scale-Chord combinations are displayed in five fingering patterns which are moveable and may be transposed to all keys.

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KEY

- = Scale Tone
- ◐ = Chord Tone within scale pattern
- ◑ = Chord Tone not used in scale pattern
- 1 ♭3 5 ♭7 = Chord Tone Degrees as indicated at left of fingerboard diagrams.

As most of the scale patterns cover a 4 fret span, simply place each of your 4 fingers on the appropriate fret. For patterns that exceed the 4 fret span, experiment with logical fingerings until you find one that best suits you.

The following seven pages show the five scale patterns for the key of C major in each of its seven chordal (modal) situations. The chord forms will serve as guides to locating the scale patterns. So the goal is to “think” a chord type and automatically play the appropriate scale.

Major Scale-Chord Combinations

I Chord in C major

Cmaj7

The C Major scale is spelled:

C D E F G A B C
1 2 3 4 5 6 7 1

The Cmaj7 chord is spelled:

C E G B
1 3 5 7

The chords in the key of C major are:

Cmaj7 Dm7 Em7 Fmaj7 G7 Am7 Bm7b5 Cmaj7
I II III IV V VI VII I

Below are the five patterns relating to the I Chord (Cmaj7).

C Major scale (C Ionian sound) Fingering 1

Fingering 2

Fingering 3

V

Fingering 4

VII

Fingering 5

3 X

Major Scale-Chord Combinations

II Chord in C major

Dm7

The Dm7 chord is spelled: D F A C = 1 b3 5 b7

Treating the minor seventh chord as a II^m7 chord is one of the more common minor seventh sounds.

C Major scale (D Dorian sound) Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Major Scale-Chord Combinations

III Chord in C major

Em7

The Em7 chord is spelled: E G B D = 1 b3 5 b7

The C major scale played against an Em7 chord (E Phrygian sound) is effective but perhaps not as popular as the IIIm7 or VIIm7 Scale-Chord relationships.

C Major scale (E Phrygian sound) Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Major Scale-Chord Combinations

IV Chord in C major

Fmaj7

The Fmaj7 chord is spelled: F A C E = 1 3 5 7

The C major scale shades the Fmaj7 chord to give it an overall maj7b5 sound, due to the flat fifth interval (B) provided in this scale.

C Major scale (F Lydian sound) Fingering 1

Fingering 2

Fingering 3

V

Fingering 4

VII

Fingering 5

X

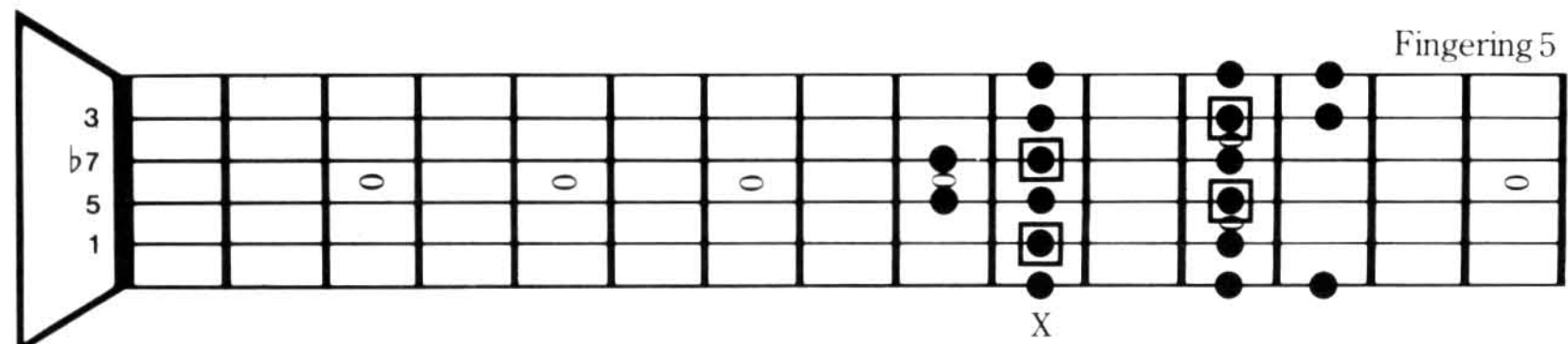
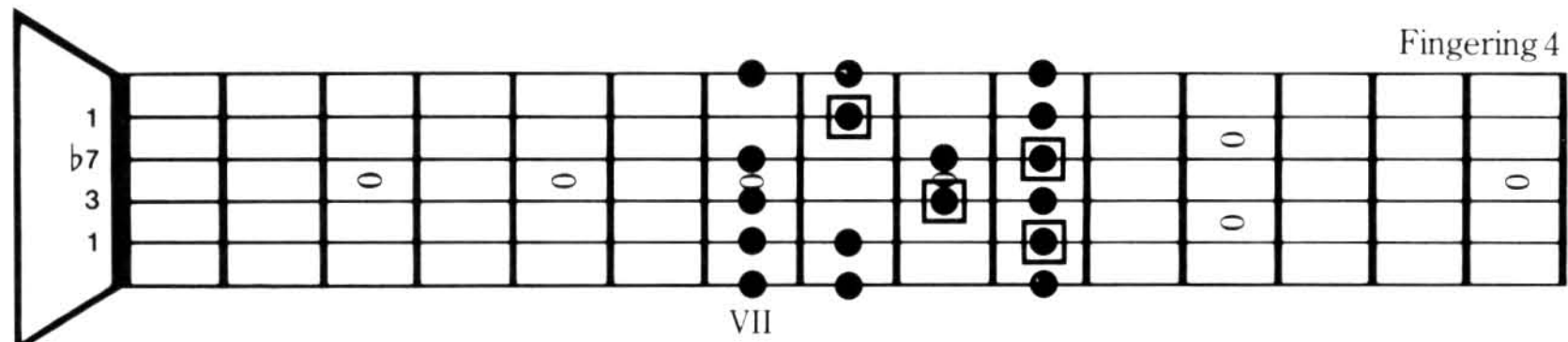
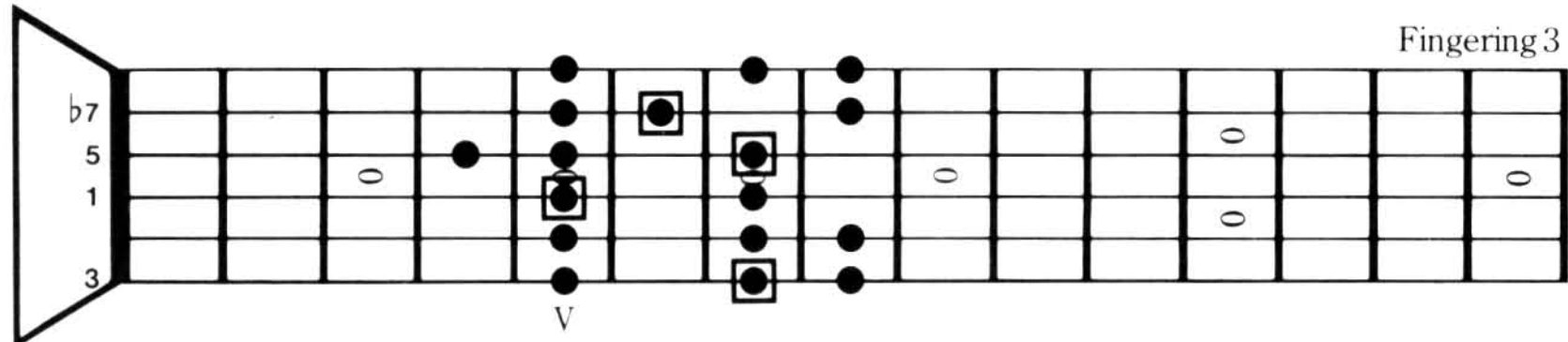
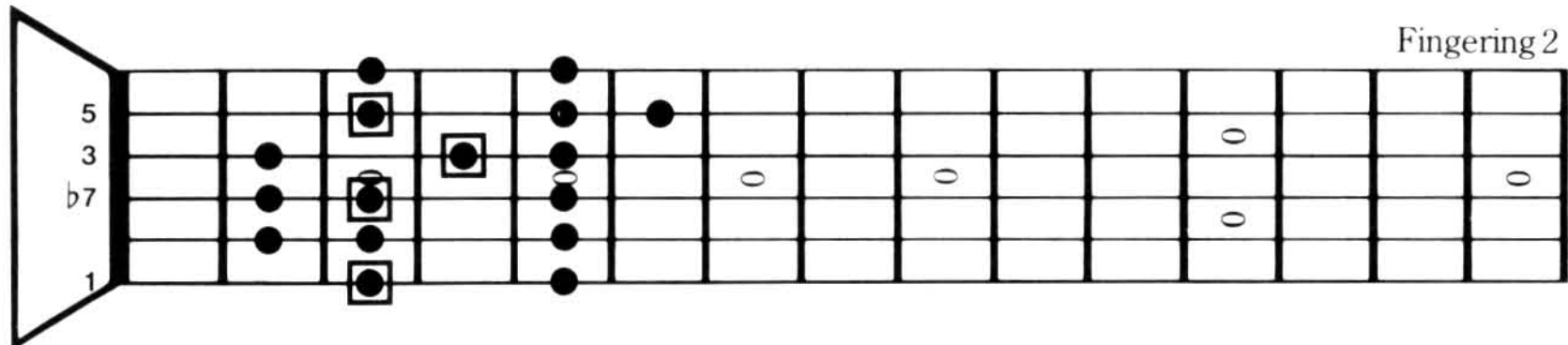
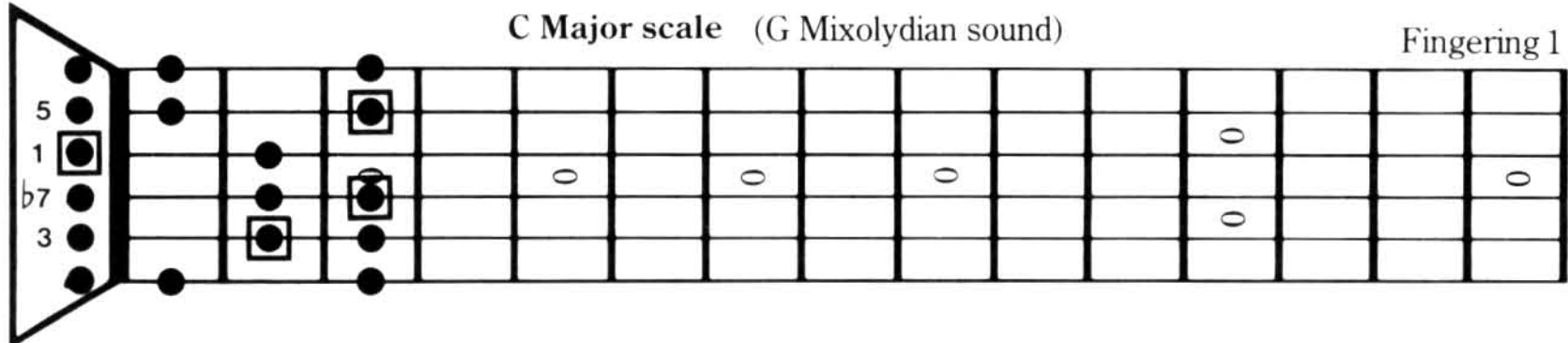
Major Scale-Chord Combinations

V Chord in C major

G7

The G7 chord is spelled: G B D F = 1 3 5 b7

This is a good Scale-Chord combination to use when improvising over a dominant 7th chord. This scale contains no altered tones b5, #5, b9, #9, only chord tones (1 3 5 b7) and extensions (9 11 13) thus producing a more consonant sound against the 7th chord as compared to other scale possibilities.



Major Scale-Chord Combinations

VI Chord in C major

Am7

The Am7 chord is spelled: A C E G = 1 b3 5 b7

This scale, which could also be called an A Natural or Pure minor scale, is still simply the notes of the C major scale.

C Major scale (A Aeolian sound) Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Major Scale-Chord Combinations

VII Chord in C major

Bm7b5

The Bm7b5 chord is spelled: B D F A = 1 b3 b5 b7

C Major scale (B Locrian sound) Fingering 1

Diagram showing the C Major scale (B Locrian sound) on a guitar fretboard. The scale is shown across 14 frets. The Bm7b5 chord is highlighted in boxes at frets 2 and 3. The left hand fingering is indicated as b3, b7, b5, 1 on the strings from top to bottom.

Fingering 2

Diagram showing the C Major scale (B Locrian sound) on a guitar fretboard. The scale is shown across 14 frets. The Bm7b5 chord is highlighted in boxes at frets 2 and 3. The left hand fingering is indicated as b3, 1, b5, b7 on the strings from top to bottom.

Fingering 3

Diagram showing the C Major scale (B Locrian sound) on a guitar fretboard. The scale is shown across 14 frets. The Bm7b5 chord is highlighted in boxes at frets 5 and 6. The left hand fingering is indicated as b5, 1, b7, b3 on the strings from top to bottom. A Roman numeral 'V' is placed below the fretboard.

Fingering 4

Diagram showing the C Major scale (B Locrian sound) on a guitar fretboard. The scale is shown across 14 frets. The Bm7b5 chord is highlighted in boxes at frets 7 and 8. The left hand fingering is indicated as b7, b3, 1, b5 on the strings from top to bottom. A Roman numeral 'VII' is placed below the fretboard.

Fingering 5

Diagram showing the C Major scale (B Locrian sound) on a guitar fretboard. The scale is shown across 14 frets. The Bm7b5 chord is highlighted in boxes at frets 9 and 10. The left hand fingering is indicated as 1, b5, b3, b7 on the strings from top to bottom. A Roman numeral 'X' is placed below the fretboard.

Harmonic minor Scale-Chord Combinations

I Chord in C Harmonic minor

Cm \flat 7

The C Harmonic minor scale is spelled:

C	D	E \flat	F	G	A \flat	B	C
1	2	3	4	5	6	7	1

The Cm \flat 7 chord is spelled:

C	E \flat	G	B
1	b3	5	7

The chords in the key of C Harmonic minor are:

Cm \flat 7	Dm7 \flat 5	E \flat maj7 \sharp 5	Fm7	G7	A \flat maj7	Bdim7	Cm \flat 7
I	II	III	IV	V	VI	VII	I

C Harmonic minor scale

Fingering 1

Fingering 2

Fingering 3

VII

Fingering 4

VII

Fingering 5

10 X

Harmonic minor Scale-Chord Combinations

II Chord in C Harmonic minor

Dm7b5

The Dm7b5 chord is spelled: D F Ab C = 1 b3 b5 b7

Here is another scale choice you have when playing over a m7b5 chord.

C Harmonic minor scale

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Harmonic minor Scale-Chord Combinations

III Chord in C Harmonic minor

Ebmaj7#5

The Ebmaj7#5 chord is spelled: Eb G B D = 1 3 #5 7

This Scale-Chord combination is very haunting yet very beautiful at the same time.

C Harmonic minor scale

Fingering 1

Fingering 2

Fingering 3

VII

Fingering 4

VII

Fingering 5

X

Harmonic minor Scale-Chord Combinations

IV Chord in C Harmonic minor

Fm7

The Fm7 chord is spelled: F Ab C Eb = 1 b3 5 b7

This page shows still one more scale choice that you have when playing over a minor seventh chord.

C Harmonic minor scale

Fingering 1

Fingering 2

Fingering 3

VII

Fingering 4

VII

Fingering 5

X

Harmonic minor Scale-Chord Combinations

V Chord in C Harmonic minor

G7

The G7 chord is spelled: G B D F = 1 3 5 b7

Within this Scale-Chord combination, the Harmonic minor scale colors the dominant seventh chord to give the extension of an 11th (C), and alterations of #5 and b9 (D# and Ab).

C Harmonic minor scale

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Harmonic minor Scale-Chord Combinations

VI Chord in C Harmonic minor

Abmaj7

The Abmaj7 chord is spelled: Ab C Eb G = 1 3 5 7

This combination creates an overall major7b5 sound due to the flat fifth interval (D) provided in this scale.

C Harmonic minor scale

Fingering 1

Fingering 2

Fingering 3

VII

Fingering 4

VII

Fingering 5

X

Harmonic minor Scale-Chord Combinations

VII Chord in C Harmonic minor

Bdim7

The Bdim7 chord is spelled: B D F Ab = 1 b3 b5 bb7 (6)

The Harmonic minor scale is very colorful when played against the diminished seventh chord. Try this combination as a substitute for G7.

C Harmonic minor scale

Fingering 1

Detailed description: This diagram shows the C Harmonic minor scale on a guitar fretboard. The notes are Bb3, 6, b5, 1. The Bdim7 chord is shown in the 2nd and 3rd frets. The notes for the chord are B (2nd fret, 4th string), D (3rd fret, 5th string), F (2nd fret, 3rd string), and Ab (3rd fret, 2nd string). The scale notes are: Bb3 (1st fret, 4th string), 6 (2nd fret, 5th string), b5 (2nd fret, 3rd string), 1 (3rd fret, 2nd string), 2 (3rd fret, 4th string), 3 (4th fret, 5th string), 4 (4th fret, 3rd string), 5 (5th fret, 2nd string), 6 (5th fret, 4th string), 7 (6th fret, 5th string), 8 (6th fret, 3rd string), 9 (7th fret, 2nd string), 10 (7th fret, 4th string), 11 (8th fret, 5th string), 12 (8th fret, 3rd string), 13 (9th fret, 2nd string), 14 (9th fret, 4th string), 15 (10th fret, 5th string), 16 (10th fret, 3rd string), 17 (11th fret, 2nd string), 18 (11th fret, 4th string), 19 (12th fret, 5th string), 20 (12th fret, 3rd string).

Fingering 2

Detailed description: This diagram shows the C Harmonic minor scale on a guitar fretboard. The notes are b3, 1, b5, 6. The Bdim7 chord is shown in the 2nd and 3rd frets. The notes for the chord are B (2nd fret, 4th string), D (3rd fret, 5th string), F (2nd fret, 3rd string), and Ab (3rd fret, 2nd string). The scale notes are: b3 (1st fret, 4th string), 1 (2nd fret, 5th string), b5 (2nd fret, 3rd string), 6 (3rd fret, 2nd string), 7 (3rd fret, 4th string), 8 (4th fret, 5th string), 9 (4th fret, 3rd string), 10 (5th fret, 2nd string), 11 (5th fret, 4th string), 12 (6th fret, 5th string), 13 (6th fret, 3rd string), 14 (7th fret, 2nd string), 15 (7th fret, 4th string), 16 (8th fret, 5th string), 17 (8th fret, 3rd string), 18 (9th fret, 2nd string), 19 (9th fret, 4th string), 20 (10th fret, 5th string), 21 (10th fret, 3rd string).

Fingering 3

VII

Detailed description: This diagram shows the C Harmonic minor scale on a guitar fretboard. The notes are b5, b3, 6, 1. The Bdim7 chord is shown in the 5th and 6th frets. The notes for the chord are B (5th fret, 4th string), D (6th fret, 5th string), F (5th fret, 3rd string), and Ab (6th fret, 2nd string). The scale notes are: b5 (5th fret, 3rd string), b3 (6th fret, 4th string), 6 (6th fret, 5th string), 1 (7th fret, 2nd string), 2 (7th fret, 4th string), 3 (8th fret, 5th string), 4 (8th fret, 3rd string), 5 (9th fret, 2nd string), 6 (9th fret, 4th string), 7 (10th fret, 5th string), 8 (10th fret, 3rd string), 9 (11th fret, 2nd string), 10 (11th fret, 4th string), 11 (12th fret, 5th string), 12 (12th fret, 3rd string).

Fingering 4

VII

Detailed description: This diagram shows the C Harmonic minor scale on a guitar fretboard. The notes are 6, b5, 1, b3. The Bdim7 chord is shown in the 7th and 8th frets. The notes for the chord are B (7th fret, 4th string), D (8th fret, 5th string), F (7th fret, 3rd string), and Ab (8th fret, 2nd string). The scale notes are: 6 (7th fret, 5th string), b5 (7th fret, 3rd string), 1 (8th fret, 2nd string), b3 (8th fret, 4th string), 2 (8th fret, 5th string), 3 (9th fret, 3rd string), 4 (9th fret, 5th string), 5 (10th fret, 3rd string), 6 (10th fret, 5th string), 7 (11th fret, 3rd string), 8 (11th fret, 5th string), 9 (12th fret, 3rd string), 10 (12th fret, 5th string).

Fingering 5

X

Detailed description: This diagram shows the C Harmonic minor scale on a guitar fretboard. The notes are 1, b5, b3, 6. The Bdim7 chord is shown in the 10th and 11th frets. The notes for the chord are B (10th fret, 4th string), D (11th fret, 5th string), F (10th fret, 3rd string), and Ab (11th fret, 2nd string). The scale notes are: 1 (10th fret, 2nd string), b5 (10th fret, 3rd string), b3 (11th fret, 4th string), 6 (11th fret, 5th string), 7 (11th fret, 3rd string), 8 (12th fret, 5th string), 9 (12th fret, 3rd string), 10 (13th fret, 2nd string), 11 (13th fret, 4th string), 12 (14th fret, 5th string), 13 (14th fret, 3rd string), 14 (15th fret, 2nd string), 15 (15th fret, 4th string), 16 (16th fret, 5th string), 17 (16th fret, 3rd string).

Melodic minor Scale-Chord Combinations

I Chord in C Jazz Melodic minor

Cm \flat 7

The C Jazz Melodic minor scale is spelled:

C	D	E \flat	F	G	A	B	C
1	2	3	4	5	6	7	1

The Cm \flat 7 chord is spelled:

C	E \flat	G	B
1	b3	5	7

The chords in the key of C Jazz Melodic minor are:

Cm \flat 7	Dm7	E \flat maj7#5	F7	G7	Am7b5	Bm7b5	Cm \flat 7
I	II	III	IV	V	VI	VII	I

C Jazz Melodic minor scale

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Melodic minor Scale-Chord Combinations

II Chord in C Jazz Melodic minor

Dm7

The Dm7 chord is spelled: D F A C = 1 b3 5 b7

This combination may sound a bit dissonant or outside due to the b9 (Eb) note, but still can be very useful.

C Jazz Melodic minor scale

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Melodic minor Scale-Chord Combinations

III Chord in C Jazz Melodic minor

Ebmaj7#5

The Ebmaj7#5 chord is spelled: Eb G B D = 1 3 #5 7

C Jazz Melodic minor scale

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Melodic minor Scale-Chord Combinations

IV Chord in C Jazz Melodic minor

F7

The F7 chord is spelled: F A C Eb = 1 3 5 b7

This combination, also referred to as the Lydian b7 scale, is an excellent scale to use over a dominant 7th chord because of its "modern" sound, due to the b5th note.

C Jazz Melodic minor scale

Fingering 1

Fingering 2

Fingering 3

V

Fingering 4

VII

Fingering 5

X

Melodic minor Scale-Chord Combinations

V Chord in C Jazz Melodic minor

G7

The G7 chord is spelled: G B D F = 1 3 5 b7

This is a commonly used altered dominant 7th Scale-Chord relationship.

C Jazz Melodic minor scale

Fingering 1

Fingering 2

Fingering 3

V

Fingering 4

VII

Fingering 5

X

Melodic minor Scale-Chord Combinations

VI Chord in C Jazz Melodic minor

Am7b5

The Am7b5 chord is spelled: A C Eb G = 1 b3 b5 b7

The Scale-Chord combinations on this and the following page show two more ways to treat the m7b5 chord.

C Jazz Melodic minor scale

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Melodic minor Scale-Chord Combinations

VII Chord in C Jazz Melodic minor

Bm7b5

The Bm7b5 chord is spelled: B D F A = 1 b3 b5 b7

C Jazz Melodic minor scale

Fingering 1

Fingering 2

Fingering 3

V

Fingering 4

VII

Fingering 5

X

Coloring Chord Types

(review)

The chart below shows the seven categories of chords that by now we are familiar with. The chart is a review of the material that we've covered up till now and also an easy way to memorize the scale possibilities that are offered to each type of chord.

MAJOR 7th

I chord major key (p3)

IV chord major key (p6)

VI chord harmonic minor key (p15)

MINOR 7th

II chord major key (p4)

III chord major key (p5)

VI chord major key (p8)

II chord melodic minor key (p18)

IV chord harmonic minor key (p13)

DOMINANT 7th

V chord major key (p7)

V chord harmonic minor key (p14)

IV chord melodic minor key (p20)

V chord melodic minor key (p21)

MINOR 7b5

VII chord major key (p9)

II chord harmonic minor key (p11)

VI chord melodic minor key (p22)

VII chord melodic minor key (p23)

MINOR/MAJOR 7th

I chord harmonic minor key (p10)

I chord melodic minor key (p17)

MAJOR 7#5

III chord harmonic minor key (p12)

III chord melodic minor key (p19)

DIMINISHED 7th

VII chord harmonic minor key (p16)

Specialty Section

In the following pages are some of my favorite Scale-Chord combinations. As there are many more scale possibilities for these chords, I suggest that you refer to the chart on page 39 for additional choices. I also highly recommend that you analyze and experiment with these Scale-Chord relationships and decide for yourself which ones you want to use in your playing.

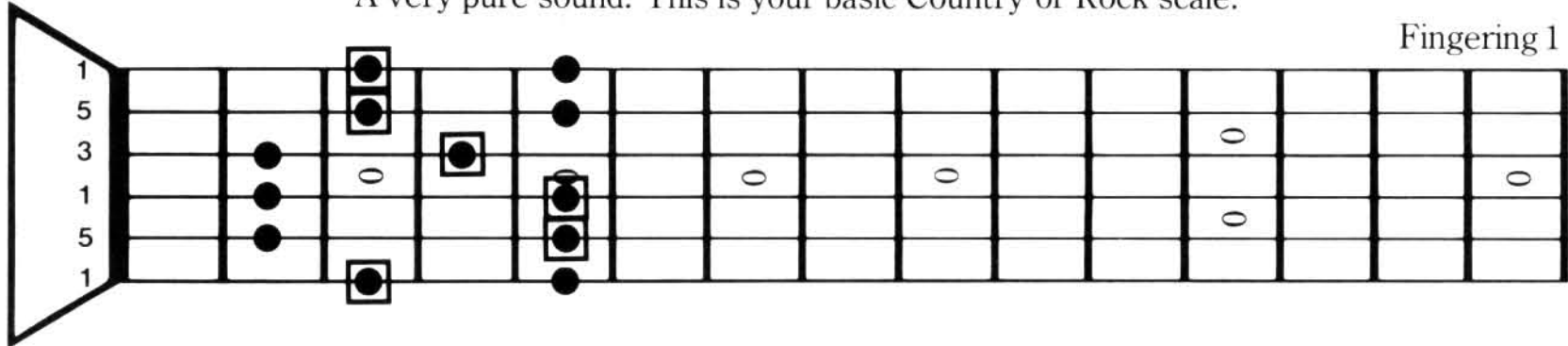
This section shows Scale-Chord combinations that are not a direct result of any harmonized scale.

G Pentatonic scale over G major chord

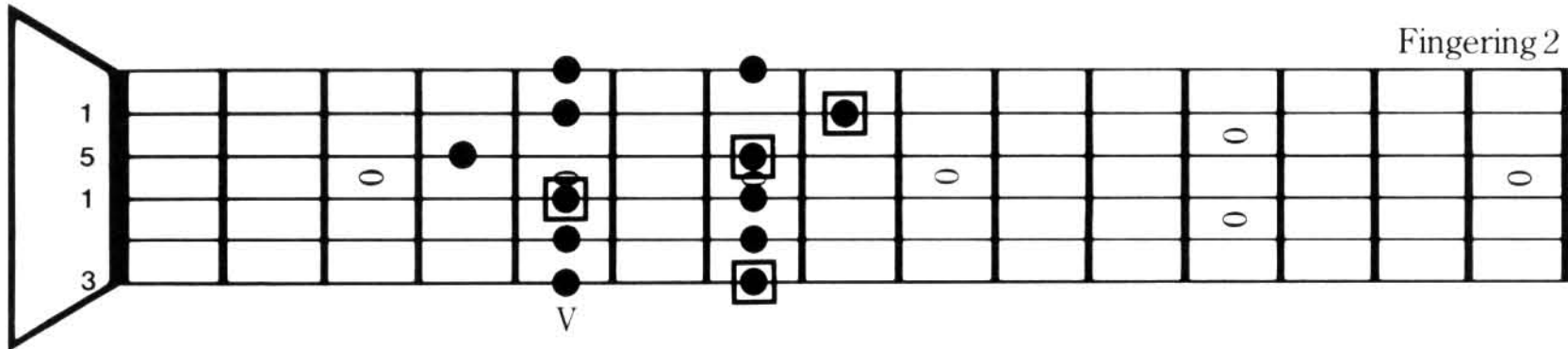
G A B D E G

G B D
1 3 5

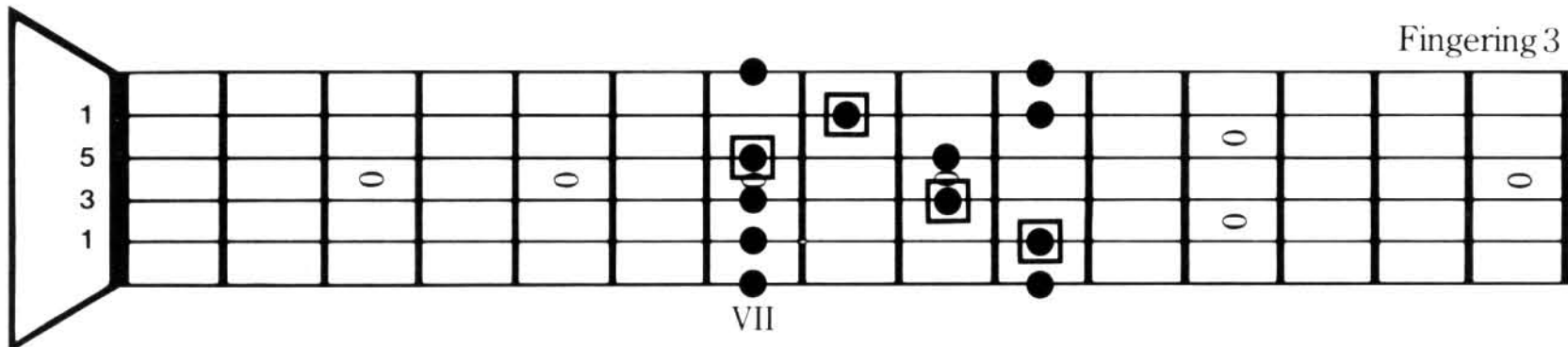
A very pure sound. This is your basic Country or Rock scale.



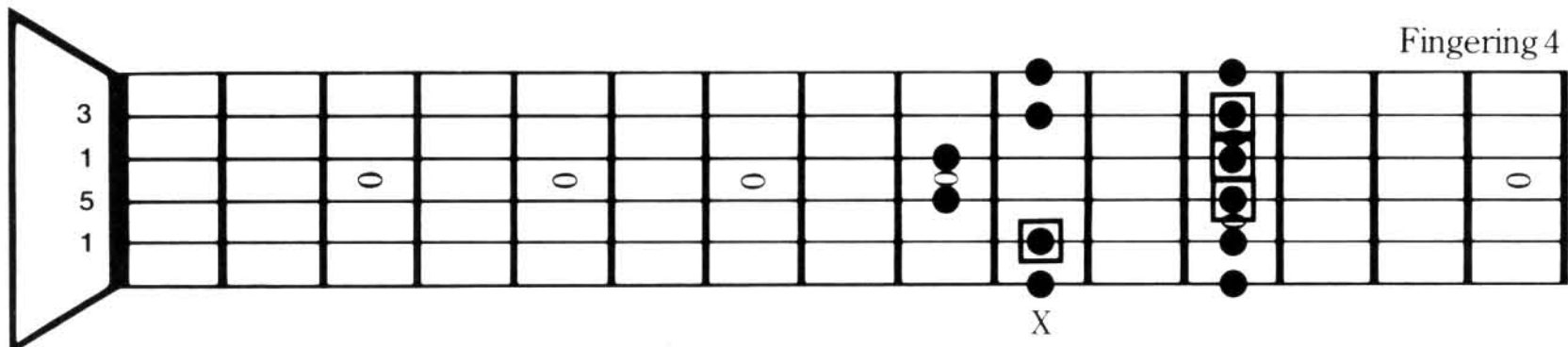
Fingering 1



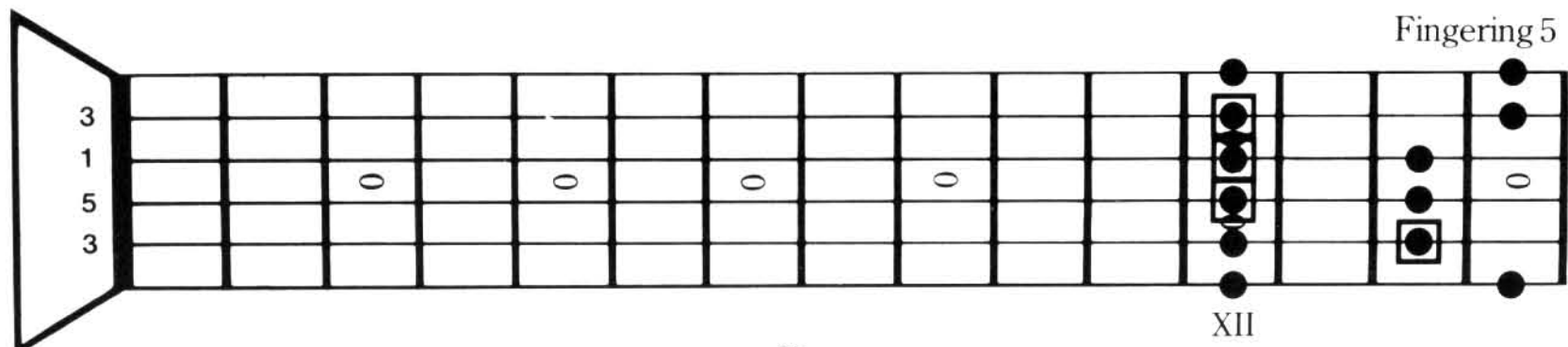
Fingering 2



Fingering 3



Fingering 4



Fingering 5

Bb Pentatonic scale over Gm7 chord

Bb Pentatonic					Gm7				
Bb	C	D	F	G	Bb	G	Bb	D	F
						1	b3	5	b7

This Scale-Chord combination is commonly used today in a Rock or Funk context. If you're a blues player, this scale is a must!

Fingering 1

Fingering 2

Fingering 3

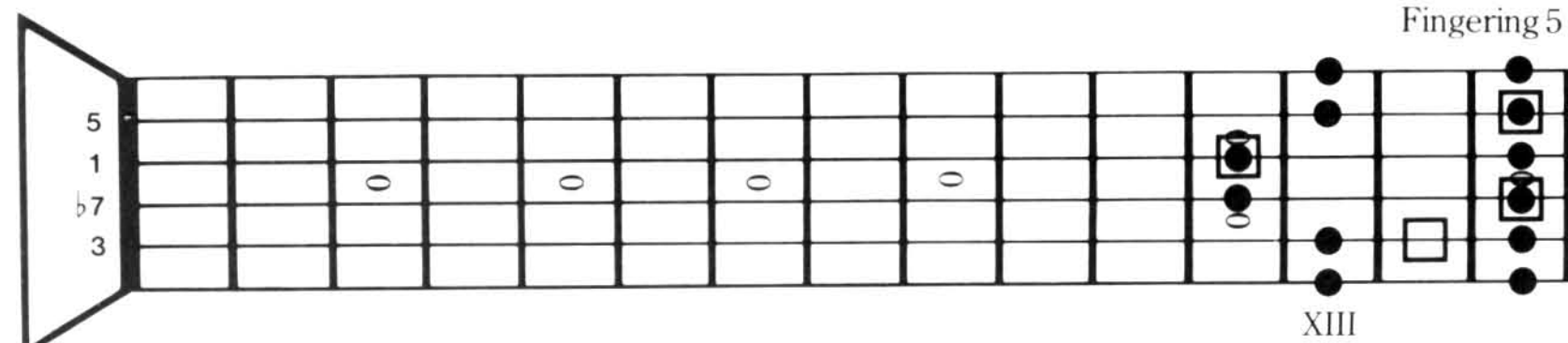
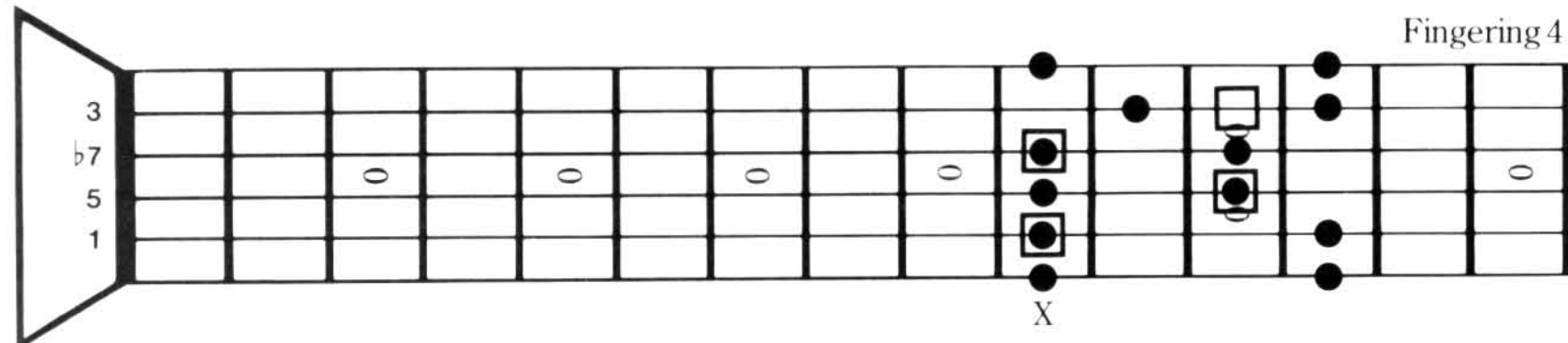
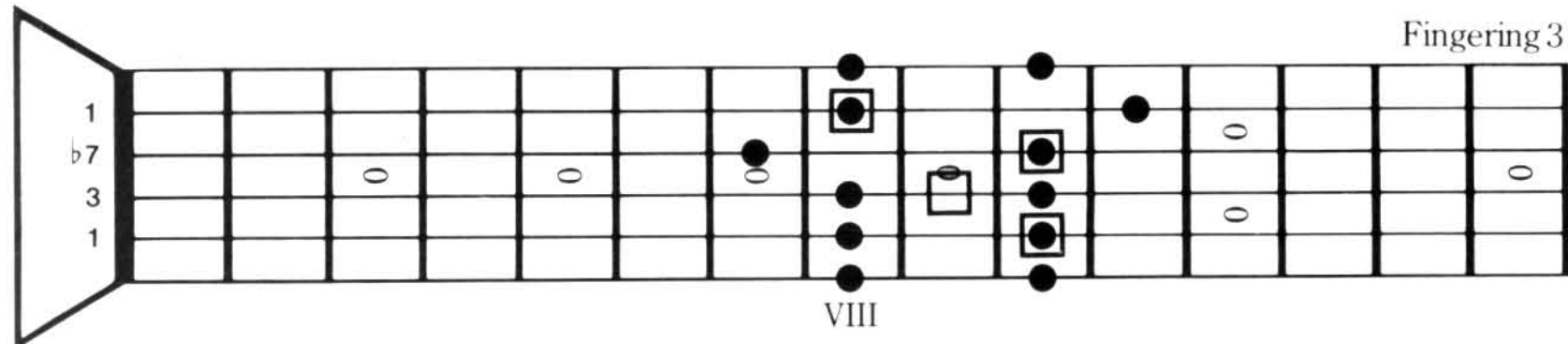
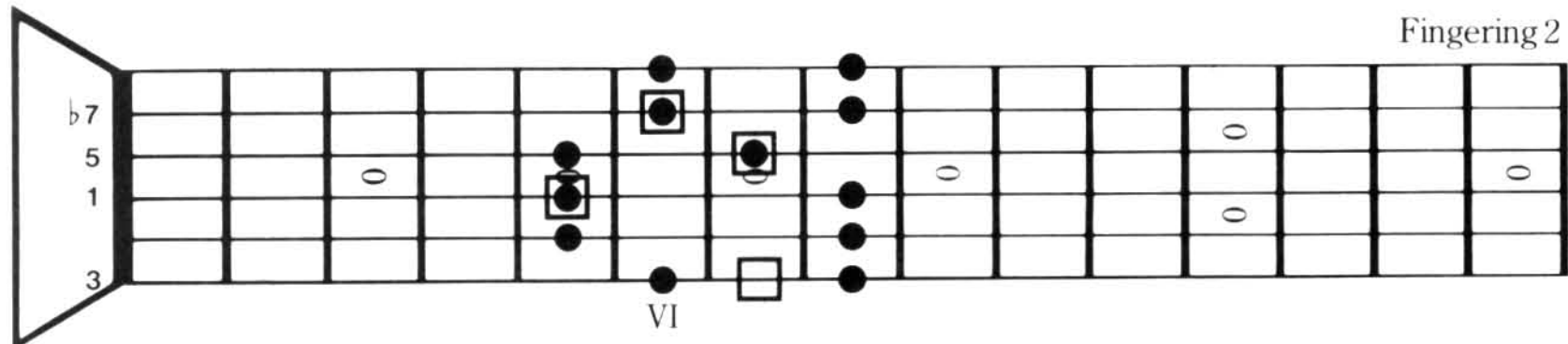
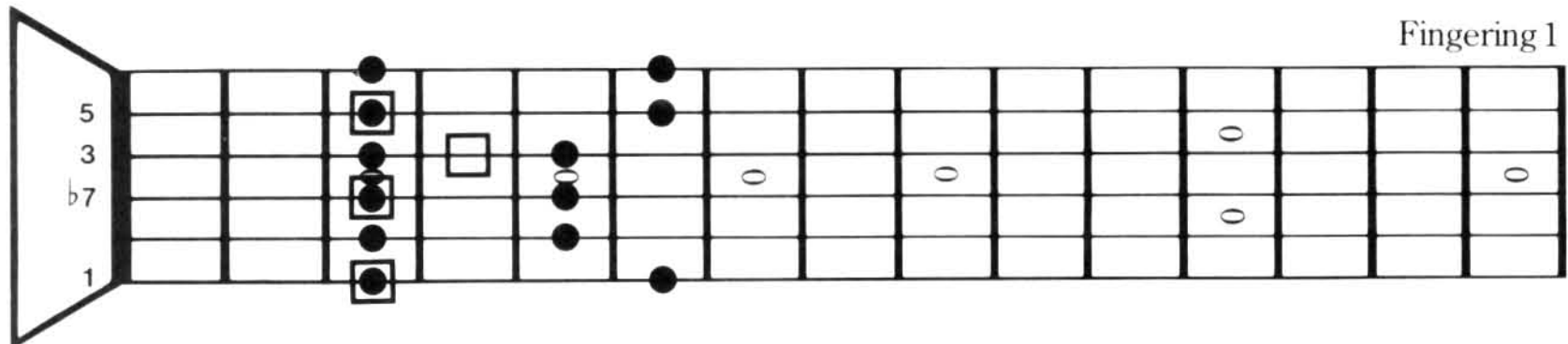
Fingering 4

Fingering 5

Bb Pentatonic scale over G7 chord

Bb Pentatonic					G7				
Bb	C	D	F	G	Bb	G	B	D	F
						1	3	5	b7

This is a common blues scale effect against a dominant seventh chord.



The Bb Pentatonic scale over G7#9 chord

Bb Pentatonic					G7#9				
Bb	C	D	F	G	Bb	G	Bb	D	F
						1	b3	5	b7

The Bb Pentatonic scale also works very well over G7#9.

Fingering 1

Fingering 2

Fingering 3

VI

Fingering 4

VIII

Fingering 5

X

C Pentatonic scale over G11 chord

C Pentatonic
C D E G A C

G11
G F A C
1 b7 9 11

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

C Major scale over G11 chord

C Major								G11			
C	D	E	F	G	A	B	C	G	F	A	C
								1	b7	9	11

This is the same basic tonality as the last page, with a few more notes added.

Fingering 1

Fingering 2

V.

Fingering 3

VII

Fingering 4

X

Fingering 5

XII

Eb Pentatonic scale over G11 chord

Eb Pentatonic
Eb F G Bb C Eb

G11
G F A C
1 b7 9 11

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

G Wholetone scale over G7#5 chord

G Wholetone							G7#5			
G	A	B	C#	D#	E# (F)	G	G	B	D#	F
							1	3	#5	b7

Note that because this scale is symmetrical (all whole steps) that there are only two common fingerings.

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Ab Diminished scale over G7b5 chord

Ab Diminished

Ab Bb B C# D E F G Ab

G7b5

G B Db F
1 3 b5 b7

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Ab Diminished scale over G7b9 chord

Ab Diminished									G7b9				
Ab	Bb	B	C#	D	E	F	G	Ab	G	B	D	F	Ab
									1	3	5	b7	b9

Notice that this chord form is basically just an Ab diminished seventh chord with G as the bass note.

Fingering 1

Fingering 2

Fingering 3

VI

Fingering 4

VI

Fingering 5

IX

A Major scale over Dmaj7b5 chord

A Major

A B C# D E F# G# A

Dmaj7b5

D F# Ab C#
1 3 b5 7

Fingering 1

Fingering 2

IV

Fingering 3

VII

Fingering 4

IX

Fingering 5

XII

F# Harmonic minor scale over Dmaj7b5 chord

F# Harmonic minor

F# G# A B C# D E# F#

Dmaj7b5

D F# Ab C#
1 3 b5 7

Fingering 1

Fingering 2

IV

Fingering 3

VII

Fingering 4

IX

Fingering 5

XIII

Ab Melodic minor scale over G7#5#9 chord

Ab Melodic minor								G7#5#9				
Ab	Bb	Cb	Db	Eb	F	G	Ab	G	B	D#	F	A#
								1	3	#5	b7	#9

Although the Ab Melodic minor scale is shown against a G7#5#9 chord, this scale works fine over any altered G7 chord.

Fingering 1

Fingering 2

Fingering 3

VI

Fingering 4

VII

Fingering 5

XI

D Melodic minor scale over G9b5 chord

D Melodic minor

D E F G A B C# D

G9b5

G B Db F A
1 3 b5 b7 9

Fingering 1

Fingering 2

Fingering 3

Fingering 4

Fingering 5

Coloring Chord Types

(Altered Dominant 7th Chords)

Below are 12 different altered G7 chords. Under each chord name are scale possibilities that match each chord type. You may find through experimentation that many of these scale choices are interchangeable and work well over any of the 12 altered G7 chords. Decide for yourself which scales you like best!

<p>G7#5 G Whole Tone C Harmonic minor Ab Melodic minor</p>	<p>G7b5 Ab Diminished D Melodic minor G Whole Tone</p>	<p>G7#9 Bb Pentatonic Ab Diminished Ab Melodic minor</p>
<p>G7b9 Ab Diminished C Harmonic minor F Melodic minor</p>	<p>G7#5#9 Ab Melodic minor</p>	<p>G7b5b9 Ab Diminished Ab Melodic minor</p>
<p>G7#5b9 C Harmonic minor Ab Melodic minor</p>	<p>G7b5#9 Ab Melodic minor Ab Diminished</p>	<p>G9b5 D Melodic minor D Harmonic minor G Whole Tone</p>
<p>G9#5 C Melodic minor G Whole Tone</p>	<p>G13b5 D Melodic minor D Harmonic minor</p>	<p>G13b9 Ab Diminished F Melodic minor</p>

Note From The Author

The objective in writing this book was to set it up in such a way that one will not only know scales when done with this book, but will see and hear exactly how they apply to specific chord types in relation to the entire fingerboard. A qualified guitar teacher can help you go over this information and help you to incorporate the ideas on these pages into song. I sincerely hope that this approach has made the task of learning scales easier and more enjoyable!

Dave Eastlee