Block Harmonization Notes



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I. Introduction Four Part Block Harmonization

- 1. Melodic Considerations
 - a. Possibilities in harmonizing a given melody
 - i. Melodic chord tones
 - ii. Melodic non-chord tones
 - As approach techniques
 - As tensions
 - b. Approach Techniques
 - i. Applied to non-chord creates in the under voices when the melody is ACTIVE
 - ii. Important to have the under voices move in the SAME manner as the melody
- 2. Chord Construction
 - a. 6 Basic chords for harmonization

Maj6 | Min6 | Dom7 | Min7 | Aug7 | Dim7

- i. The Maj 7th interval is treated as a dissonance
- b. Must be spelled with correct letter name of scale on full score
 - i. Dim 7th chord is an exception which should be spelled enharmonically to avoid double flats on score
 - ii. Parts can be spelled enharmonically for ease of reading for players

II. Approach to harmonization

- 1. Introduce various possibilities in harmonizing a given melody
- 2. Melodic chord tones are easily understood
- 3. Non-chord tones
 - a. Use a Approach Tensions
 - b. Use as Approach Techniques
 - i. Create motion in the under voices when melody is active
 - ii. Important to have the under voices move in the same manner as the melody
 - Due to phrasing
 - Due to articulation

- 4. Cautions in notation
 - a. #'s and b's are used to raise or lower notes from their natural appearance in the scale of the full score
 - b. Diminished chords should be spelled enharmonically to avoid double flats in the full score
 - c. Parts may be spelled enharmonically for convenience of the player

III. Rhythmic notation and Anticipation

- 1. Every time signature has its own subdivision of the beat
 - a. Cannot write across the half bar subdivision
 - b. Beams and dotted notes must respect this imaginary division
- 2. Anticipation
 - a. Two basic types
 - i. Use of tied notes
 - ii. Off beat eight notes followed by a rest
 - b. Tied notes
 - i. Rhythmic device which forces an "on the beat" note to be attacked prematurely by a by a half beat
 - Results in melodic and harmonic syncopation
 - ii. Any beat may be anticipated
 - iii. In 4/4 time normally occurs before 1st and 3rd beats
 - iv. If the melody anticipates the harmony must anticipate
 - c. Off beat eighth followed by a rest (last eight note)
 - i. Precedes the chord change
 - ii. If melody anticipates the harmony must anticipate

IV. Closed Score/Block Harmonization (simple 4 way Melodic Harmonization)

- 1. Chord tone
 - a. Harmonize chord tones with notes from the chord built directly below the melody

| С | Melody |
|----|---------------|
| Α | |
| G | Harmonization |
| Ε | |
| C6 | Chord |

- 2. Non-chord tones
 - a. Harmonize non-chord tones with notes from chord built directly beneath the melody
 - i. Omit the nearest chord tone that would normally appear beneath the non-chord tone melody note

| D | Melody |
|-----|---------------|
| (C) | Replaced |
| Α | |
| G | Harmonization |
| E | |
| C6 | Chord |

- 3. Basic closed score principle
 - a. One chord per bar carries for the entire bar
 - b. Two chords per bar
 - i. Two beats per chord
 - ii. Sometimes split 3 and 1
 - c. Accidentals carry through bar in the same voice part
 - i. Accidentals appearing in more than same voice part must be written again to avoid confusion i.e. C1# C3#
 - Accidentals do not carry through the octave
 - Must be entered again
 - d. Use Bass Clef for convenience to avoid ledger lines
 - i. Stems up in treble
 - ii. Stems down in bass
 - e. Harmony must always coincide with the melody
 - i. Melody tied then parts tied
 - ii. Melody dotted then parts dotted
 - iii. All parts same rhythmic duration
 - iv. If long melody note tied to a short note do not change part harmony until next attack

V. Approach Techniques

- 1. A non-chord tone that approaches a chord tone by whole or half steps
 - a. Duration is usually 1/8 note or less but sometimes a 1/4 note
 - b. Most 1/4 notes will be approach notes if non-chord tone
 - c. Must have "forward motion" to chord tone
 - i. If have 2 or more repeated notes, the last repeated note cannot be an approach note
 - Once a chord sound has been established on
 - repeated notes, it must remain a chord sound
 - ii. An anticipation cannot be an approach note

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- 2. Spelling
 - a. When harmonizing approach notes use enharmonic spelling
 - b. Harmonize the chord tone being approached (target note) then spell the approach chord
 - c. Spell in relation to the direction of movement
 - i. Sharps to ascend
 - ii. Flats to descend
 - d. Do not mix accidentals
- 3. Chromatic Approach Technique
 - a. Chromatic approach note is a tone that approaches chord or nonchord tone by 1/2 step above or below
 - i. 1/8 note or less sometimes a 1/4 note
 - b. Harmonize the chord tone or non-chord tone being approached (target note) first
 - i. Then harmonize the approach note in the same direction as the approach to target note by <u>same step interval</u>
- 4. Diminished Approach Technique
 - a. An approach note that is 2nd / 4th / Maj7th of the Major scale of the <u>chord you are approaching</u>
 - b. Must approach a chord tone
 - c. Cannot approach another diminished chord
 - d. Harmonize by building a diminished chord from melody note
- 5. Chromatic and Diminished Approach
 - a. May be occasions when non-chord tone may be both a chromatic and diminished approach tone
 - i. Chromatic approaches are normally out of key notes
 - ii. Diminished notes are normally scale notes of the <u>chord</u> <u>being approached</u>
 - b. Exception is leading tone of chord moving up which is normally a chromatic approach
 - i. Takes diminished harmonization from chord scale

NB:

- Melodic sequence always gets harmonic sequence
- Use C to label chromatic approach notes
- Use o² / o⁴ / o⁷ to label degree plus diminished approach
- Use nc for non-harmonic tone
- Use > for anticipation
- Watch the 6th / Maj 7th on the Major Chord
- Harmonize the 6th as diminished approach sometimes
- Maj 7th harmonized with 6th if melody note is not Maj 7th

VI. Summary of 3 Melodic Functions

- 1. Chord tones
 - a. Melody is a contained note of the overlying chord

2. Approach Notes

- a. Chromatic
 - i. Non-Chord Tone
 - ii. Approaches <u>anything</u> (chord or non-chord tone) by a1/2 step above or below

There are instances

where the Approach note chord can be

both chromatic and

diminished

- iii. 1/8 note or less sometimes a 1/4 note
- iv. Ascending leading tone of chord is usually chromatic
- b. Diminished
 - i. 2/4/M7 step of the Major scale of the target chord
 - ii. Must approach a chord tone
 - iii. Cannot approach a diminished chord
 - iv. Diminished chord is built from the melody note

VII. Extended Tensions

- 0. Non-chord tones identified as specific unresolved tensions (occur only in the melody)
- 1. Non-chord tones now must be identified as a specific tension
 - a. Non-chord tone replaces related chord tone directly below
 - b. Technique same as harmonization of non-chord tones

| Tension Chart | | | |
|---------------------------|---|---|--|
| Major 6 th | 9 for 1 7 for 6 | Minor 6 th | 9 for 1 7 for 6 |
| Dominant 7 th | 13 for 5 #11 for 3 11 for 3 9 for 1 | Minor 7 th | 11 for b3 9 for 1 |
| | Support: b13 with b9 #9 with b13 (except on substitute x7 chords | Spell #9 enharmonically due to key relationship | |
| Augmented 7 th | #11 for 3 9 for 1 | Diminished 7 th | Any scale note whole step above a chord tone |
| Half diminished 7th | 11 or b3 9 for 1 (in a major key only – no 9 th in a minor key) | | |

2. Technique

- a. Chord tone always gets chord sound
- b. Non-chord approach note is chromatic or diminished
- c. Non-chord tone not an approach note is a tension
 - i. Tension is always last choice
- d. Melodic sequence always gets harmonic sequence

| Labels | | |
|---|------------------------------------|--|
| Chromatic approach Diminished approach | $C o^2 o^4 o^7$ | |
| Tension | T (identify w/number from chord | n.c. term is replaced w/specific identifier |
| Anticipation | > | |

- 3. Chord progression
 - a. Chord progression must always be compatible with the melody
 - b. Basic construction
 - i. Any I chord may be preceded by its V chord
 - ii. Any V chord may be preceded by is ii-7 chord

VIII Additions to Four Way Chord (Block) Harmonization

- 1. Substitute 9 for 1 in all dominant 7th chords
 - a. Except when 1 is in the melody
 - Aug 7th functions as a dominant chord and takes the same 9 for 1 substitution
- 2. Introduce the b9 on the last rhythmic attack of the x7th chord or V of I progressions
 - a. Do not introduce b7 into an approach technique not going directly to the I chord
 - b. In ø7 to Vx7 progression the related x7th chord always gets b9
 - c. Must accommodate major and minor key w/b9
 - d. Do not return to natural 9 after b9 is introduced
 - e. May introduce b9 on a V7 \rightarrow I when melody interrupted by a rest
 - f. Support b13 with b9; #9 with w/b13 except on substitute x7th chords
- 3. When 1 or 9 is in the melody of a $x7^{th}$ chord
 - a. Introduce #5 on the last rhythmic attack
 - b. Do not introduce as an approach tone must go directly to the I chord
 - c. Can be eight, quarter, or dotted quarter note (but no more)
 - d. If 4th beat of the bar is involved, must change chord symbol to Aug (+)
- 4. When #5 is in the melody and is last rhythmic attack on a V7 \rightarrow I progression
 - a. Treat #5 as a chord tone not a chromatic approach
 - b. Support with the b9

- 5. When 9 is in the melody of Maj6/min6 chord
 - a. May substitute Maj7th in place of 6th in the 2nd voice
 - Major 7th interval on a minor chord (minMaj7) is very harsh use sparingly

IX Additional Approach Techniques

- 1. Double Chromatic approach
 - a. Two non-chord tones that approach a chord tone chromatically
 - i. May approach across the bar line
 - ii. From same direction
 - iii. Duration is 1/8 or 1/4 note
 - b. Approach same as a single chromatic approach label is still [c]
- 2. Delayed Resolution
 - a. Two non-chord tones that approach a chord tone
 - i. From opposite directions
 - ii. By whole or half step
 - iii. Duration is 1/8 sometimes 1/4
 - b. Harmonized as
 - i. Diminished \rightarrow diminished
 - ii. Chromatic \rightarrow chromatic
 - iii. Diminished \rightarrow chromatic
 - iv. Chromatic \rightarrow diminished (weak, last choice)
 - c. Diminished chords follow diminished approach
 - i. 2/4/M7 of major scale of chord being approached
- 3. Dominant Approach
 - a. Is the V7 of the chord you are approaching (i.e. $D7 \rightarrow G7$)
 - i. Duration is eight or sometime quarter note
 - ii. Dominant approach must appear in altered form
 - iii. In covering the 13th the target chord will always be +7



- iv. Always works in following melodic context
 - 13 → 5
 - 13 approached from below
 - 5 → 13

v. Label DA

X Summary

1. Labels



- 2. Substitute 9 for all Dominant chords with exception of chord root in melody
- 3. V7 \rightarrow I Progression
 - a. When 1 or 9 is in the melody of the x7 chord introduce #5 on the last rhythmic attack
 - i. Must go directly to I chord
 - b. When #5 is in the melody and is last rhythmic attack treat as a chord tone
- 4. 9 in melody of M6 or M7 chord
 - a. Can substitute M7 in place of 6th in 2nd voice
 - i. If M7 is in melody harmonize as M7 chord but revert to 6th after
 - ii. Caution on MajMin7th chords due to harshness

XI Alternate voicings

- 1. Several types of alternate voicings
 - a. Basic purpose is to create better voice leading
 - b. Voice leading should always be a primary concern
- 2. b5 Alternate voicing
 - a. When #11 is in the lead voice of a x7 and moves up, sustains, or repeats to become a natural 5
 - i. By treating #11 as b5, the voice leading in under voices becomes smoother

- b. May treat #11 as b5 when
 - i. 5 may be of the same chord
 - ii. 5 may be of a new chord
 - iii. 5 may occur within the bar
 - iv. 5 may occur over the bar line into new chord (may become a new function)
- c. Voice leading always determines the use of b5 alternate voicing
- d. Voicing

| b5 | Can re-label b5 to #11 and vice versa |
|----|---------------------------------------|
| 3 | #11 replaces 3 rd |
| 9 | b5 remains as a 5 th |
| b7 | |

3. Altered -7 / x7 voicing

a. Use when natural 11th is in the melody of min7th chord and sustains, repeats, or moves up to become 1 or any form of 9 in the melody of the x7th chord



- If x7th chord is not V of I, always use altered min7th voicing with conventional x7th voicing
- ii. If x7th chord is V of I use altered x7th voicing with conventional -7th voicing

Choice of which altered voicing to use depends always upon the function of the x7th chord

- b. Voice leading on all V7 of V / V7 of II / ii-7 → V7 progressions 7 goes to 3 and 3 goes to 7
- 4. Summary
 - a. If $x7^{th}$ is not V7 of I
 - i. Do not use altered dominant voicing but use altered -7th voicing
 - ii. Altered $x7^{th}$ uses b9 and should be introduced on the last rhythmic attack in V7 \rightarrow I progression

- b. If x7th is a V7 of I
 - i. Altered x7th voicing must be on the last rhythmic attack of the V7 \rightarrow I
 - ii. Altered x7th voicing cannot be used in a 'melodic' forward moving passage
- c. Label 'A' altered 'C' conventional
- d. Three questions to determine use
 - i. Is $x7^{th}$ a V7 \rightarrow I [yes]
 - ii. Is melody note on the last rhythmic attack [yes]
 - iii. Is there melodic forward motion [no]
- e. There are no altered voicing on Aug7th chords
- f. If the natural 11th of a minor 7th chord sustains/repeats/move up to become 1 or 9 of an augmented chord them minor 7th chord will always be altered voicing
- g. Altered x7th voicing may be used without natural 11th on the minor 7th chord preceding it for climax
- h. When natural 11th is in melody of -7b5 chord and sustains/repeats/moves up to become 1 in melody of the x7th chord always use altered x7th voicing and conventional -7th voicing (regardless of placement within the bar)
- i. Altered x7th voicing may be used when b3 is in melody of -7th chord
 - i. Natural 11th is used to replace $b3 \rightarrow so$ $b3^{rd}$ treated similar to natural 11th
 - ii. 1 in lead of x7th that is
 - Is V7 of I
 - The last rhythmic attack of V7 → I
 - No melodic forward motion

XII Continuation of Chord Progressions

- 2. Substitute Chords
 - a. Are coloration harmonies
 - b. May be used internally in chord progressions
 - c. Relationship to original chord based upon common tones and internal tensions
- 3. lii-7 chord
 - a. Substitute for I chord
 - i. I with 9 substituting for 1 and M7th for M6th the upper structure is a iii-7 chord

Voice leading determines the use of all alternate voicings b. Essentially an extension of the M6th chord with 7th and 9th added



- 4. bVII7 chord
 - a. Substitute for the IV-6 chord
 - i. Same common tones (with exception of root)
 - ii. Interchangeable tensions

| bVII7 | | | | | | | |
|-------|---|------|----|---|---|--|--|
| Bb | D | F | Ab | - | | | |
| | | F | Ab | С | D | | |
| | | vi-6 | | | | | |

- 5. bll7 chord
 - a. Substitute for 'any' V7 chord which functions as a dominant
 - b. Root of bll7 chord is always 1/2 step above chord you are approaching (#4 above the V7 of the approach chord) c. May be used as a substitute for any x7th as have the same tritiones

| G7→C6 | G | В | D | F |
|--------|----|---|---------|----|
| | | | Tritone | 1 |
| Db7→C6 | Db | F | Ab | Cb |

| | Six Possible Directions for the V7 Chord | | | | | | | |
|---|--|-------------|--------------------------|---------------|-------------|-------------------|-----------|--|
| 1 | D-7 ii-7 | G7 V7 | C6 16 | | Wa | tch Ke | ys | |
| 2 | D-7 li7 | G7 V7/V | C7 V7 (in F) | \rightarrow | K vi-7 | ey of F II7 | V7 | |
| 3 | D-7 ii-7 | G7 V7 | C-7 i-7/ii-7(in Bb) | \rightarrow | Ke iii-7 | ey of Bl VI7 | o ii-7 | |
| 4 | Ab-7 ii-7 | G7 bll7 | Gb6 I | | | | | |
| 5 | Ab-7 ii-7 | G7 bll7 | Gb7 V7 | \rightarrow | Ke bvi-7 | ey of Cl bVI7 | V7 | |
| 6 | Ab-7 ii-7 | G7 bll-7 | Gb-7 i-7/ii-7 (in Fb) | \rightarrow | Ke iii-7 | ey of F biii-7 | b ii-7 | |

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XIII Diatonic Approaches

- 1. Only two functions that are used in Diatonic Approach
 - a. Tonic
 - b. Subdominant
- 2. Tonic
 - a. Chords
 - i. IMaj7 and iii-7
 - ii. The vi-7 is not used
 - iii. ii-7
 - b. Use on Major chords
 - i. With following 3 note melodic fragments
 - Ascending 5/6/7 or 7/8/9
 - Descending 7/6/5 or 9/8/7
 - c. Duration
 - i. Is eight note or less sometimes quarter note
 - ii. 3rd note may be tied to a longer note
 - iii. NOT on an anticipation of another chord
 - d. Use on the Tonic
 - i. Tonic is primary tonality

| | | Ascending | |
|-----------------------|------------------------------|---------------------------|------------------------|
| Chord step on CMai | IMaj7 → 5 G CMai7 → | ii-7 → 6 A D-7 → | iii-7 7 B E-7 |
| over the complete 3 | Tonic | Sub-Dom | Tonic |
| note melodic | | Descending | |
| fragment | iii-7 → | ii-7 → | IMaj7 |
| | 7 | 6 | 5 |
| | В | A | G |
| | E-7 → | D-7 → | CMaj7 |
| | Tonic | Sub-Dom | Tonic |

- ii. When melody ascends, always start with the lowest function of the tonic → IMaj7
- iii. When melody descends, always start with the highest function of the tonic \rightarrow iii-7

- 3. Subdominant
 - a. Chords
 - i. IVMaj7 and ii-7
 - ii. Iv-7 is not used
 - iii. Iii-7
 - b. Use with following on min7th chords
 - i. With following 3 note fragments
 - Ascending 5/6/7 or 7/8/9
 - Descending 7/6/5 or 9/8/7
 - c. Duration is eight note or less, sometimes quarter note
 - i. 3rd note may be tied to note of longer duration
 - ii. NOT on anticipation of another chord
 - d. Use on Subdominant
 - i. Subdominant is primary tonality

| | | Ascending | |
|-------------|----------|------------|---------|
| | ii-7 → | iii-7 → | IVMaj7 |
| | 5 | 6 | 7 |
| Chord step | А | В | С |
| on D-7 over | D-7 → | E-7 → | FMaj7 |
| the | Sub-Dom | Tonic | Sub-Dom |
| complete 3 | | | |
| note | | Descending | |
| melodic | | - | |
| fragment | IVMaj7 → | iii-7 → | ii-7 |
| | 7 | 6 | 5 |
| | С | В | А |
| | FMaj7 → | E-7 → | D-7 |
| | Sub-Dom | Tonic | Sub-Dom |

- ii. When melody ascends, always start with lowest function of the subdominant → ii-7
- iii. When melody descends, always start highest function of the subdominant → IVMaj7

- e. Always assume the min7th chord is the ii-7 of a key
 i. The diatonic 7th chords must come from that key, NOT the name of the chord

| FMaj7 | Bb-7 | A-7 | D7 | G-7 | C7 | FMaj7 | |
|----------|--|----------|----|-----|----------|-------|--|
| Key of F | Key of Ab Diatonic approach derived from key of Ab | Key of (| G | | Key of F | | |

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