## The Shaping of Musical Elements

WORKBOOK

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### PREFACE

his workbook accompanies the text for volume 2 of this two-volume book. The second volume is normally covered in the second year of college-level music theory. The goal of this text is an understanding of musical structure, and the practical exercises in analysis and in creative writing found in this workbook help the student achieve this understanding.

The exercises in creative writing include a wide range of possibilities varying in restrictions, length, and creative potential. Some problems are small or limited, while others require more creativity through writing counterpoint or harmonic progressions, harmonizing melodies, or, in some cases, composing short pieces or portions of pieces. In the chapters on forms the emphasis is placed strongly on analysis; however, most chapters contain a balance of exercises in both analysis and creative writing, with the analytical problems generally preceding the creative ones. For such chapters, do at least some of each type of exercise to assure that you comprehend the concepts set forth in the text and that you know how to apply them.

The abundance of exercises allows us to include music of different types and of several levels of analytical difficulty. It is assumed that no one class will use all the material. Unique to this workbook is the inclusion of a large number of complete movements, similar in length to what is usually found in a separate anthology.

In addition to these exercises, each chapter concludes with suggested "laboratory experiences," in which the students may experience the sounds and effects of the musical concepts being studied. Students sometimes work individually, sometimes in groups. Laboratory experiences may include directed or guided listening, performance through singing or playing, other exercises in "live" music, and group discussions.

The workbook provides opportunities to bridge the gap between theory problems chosen and monitored by a teacher and the activities of the self-reliant, independent musician.

Consistent with this approach in encouraging independence, blank staves with setup systems are provided only when a particular, specialized format is needed. For most exercises it is valuable for the student to be given experience creating the standard layouts for staves, systems, clefs, and so forth in the changing contexts of their theoretical study.

### Polyphonic Techniques

Student Name:	Section:
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### **EXERCISES**

1-1. Analyze the contrapuntal devices employed in these examples of polyphonic sequence and inversion. Use the method illustrated in examples 1-8, 1-9, 1-17, and 1-18b of the text.

### SAMPLE



a. Handel: Klavier Suite in F, HHA iv/1, 10, fourth movement





### Exercise 1-1. (continued)

b. Bach: Well-Tempered Clavier II, BWV 889, Prelude No. 20



c. Franck: Prelude, Chorale, and Fugue, Fugue



Student Name:	Section:
Instructor Name:	Date:

Exercise 1-1. (continued)

d. Bach: Clavierübung, Partita II, BWV 826, Sinfonia



e. Mendelssohn: Six Preludes and Fugues, op. 35, Fugue No. 3



1-2. Create two-voice counterpoint by adding a bass part to the given soprano lines. Include a harmonic analysis.





- 1-3. Create two-voice imitation at the designated interval by adding the necessary voices and continuing the first voice. Include a harmonic analysis.
- a. Subject in soprano; add a bass at the octave below.



b. Subject in alto; add a bass at the octave below.

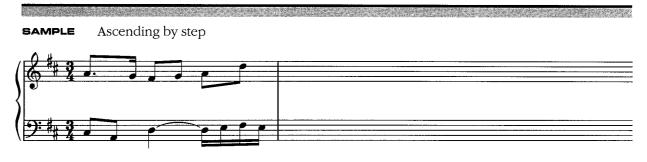


### Exercise 1-3. (continued)

c. Subject in bass; add a soprano at the octave above.



1-4. The first leg of a polyphonic sequence is given; add the second and third legs according to the description given. Include a harmonic analysis.



### SOLUTION

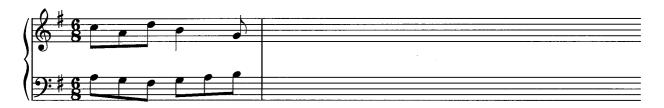


a. Ascending by fourth



### Exercise 1-4. (continued)

b. Descending by step



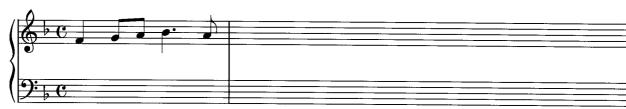
c. Descending by third



1-5. In each case below write a two-voice polyphonic sequence using the given soprano as part or all of the first leg. Include a harmonic analysis and describe the sequence.



a.



b.

(9: ## 8

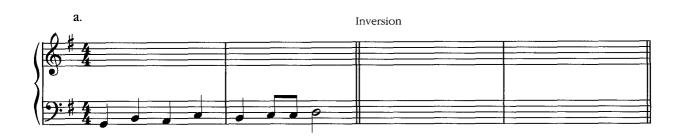




1-6. Add a soprano to make invertible counterpoint at the octave; then write out the inverted form. Include a harmonic analysis.

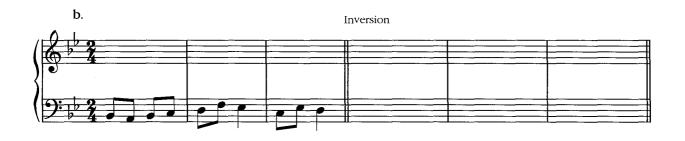
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# SOLUTION Inverted



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V6

### LABORATORY EXPERIENCES

Exp. 1-1. Listen to recordings of one or more of the works listed below. Can you hear the occurrences of imitation, polyphonic sequence, or inverted counterpoint? Discuss those characteristics that you can determine without benefit of the score.

### Bach: Invention 9

a. Polyphonic sequences:

descending or ascending?

interval of change?

length of leg?

length of sequence?

**b**. Contrapuntal inversion:

location of passages related by inversion?

length of inverted passage?

interval of inversion?

### Bach: Invention 10

a. Imitation:

voices used (as leader and follower)?

length of delay?

interval of imitation?

length of imitation?

b. Polyphonic sequence:

descending or ascending?

interval of change?

length of leg?

length of polyphonic sequence?

### Bach: Sinfonia 6

a. Imitation:

voices involved?

length of delay?

interval of imitation?

length of imitation?

b. Polyphonic sequence:
 descending or ascending?
 interval of change?
 length of leg (compare with meter)?
 length of polyphonic sequence?

Handel: Messiah, No. 17, "Glory to God"

- J. S. Bach: Cantata No. 140, "Wachet auf," first movement
- J. S. Bach: Brandenburg Concerto No. 5, third movement

Exp. 1-2. Write an example that could be performed in class using whatever instruments or voices are available. Use the key of C major and  $^4_4$  meter. Perform the result.

- a. Imitation in two voices: at the octave, one-measure delay.
- b. Polyphonic sequence in two voices: descending by step, one-measure leg, tonal, continue for three legs.
- c. Contrapuntal inversion in two voices: two-measure passage followed immediately by its inversion, at the octave or fifteenth.

## Fugue and Fugal Movements

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### **EXERCISES**

- **2-1.** Write two-voice fugal expositions using the given fugue subjects. Employ a real answer. Entry order of voices: soprano, bass. The answer should begin immediately in the measure following the given subject. Approach the writing process in the following stepwise order:
  - a. subject (given)
  - b. answer
  - c. counterpoint against the answer

### SAMPLE



### SOLUTION







### Exercise 2-1. (continued)









- 2-2. Analyze the following fugues (or fugal passages) according to one or more of the following options. Diagram your findings with a chart, as shown in figure 2-1, or with an annotated score.
  - a. Identify by measure numbers the subject, answer, and possible countersubject.
  - b. Identify by measure numbers the exposition, central portion, episode(s), restatement(s) or restatement groups, and possible coda. (Fugues e and f are particularly suited to this.)
  - c. Identify main key areas. (Fugues b and c are particularly suited to this.)
  - d. Locate and describe the contrapuntal devices used. Use the format shown in the text (with regard to ex. 2-11) or give annotative description in the score.
    - Give a thorough analysis: Include the measure number of each contrapuntal device you find in the piece. The format used in example 2-9 to describe various devices should serve as a model. Indicate instances of polyphonic sequence, inverted counterpoint, imitation, and stretto.
    - 2. Give a representative analysis: Note at least one example of each type of contrapuntal device that is used in the piece.

Student Name:	Section:
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- e. Describe the melodic treatment of the principal melodic material within episodes and restatements; include the sources (within the piece) of the material, and note the kinds of modification used. (Fugues a and c are particularly suitable here:)
- f. Give a full analysis of fugues a and d with an annotated chart like the one shown below and demonstrated in figure 2-2 of the text.

Composer Work Sections: Measures: 10 15 20 30 Soprano Material Alto in Tenor Voices: Bass Keys: Sec: Mm: 35  $^{40}$ 45 50 55 60 65 S A T В Keys: Sec: 80 Mm: 75 85 90 95 100 S A Ţ В Keys:

a. Mozart: Fugue for Piano, K. 153



18

Student Name:	Section:

Exercise 2-2. (continued)



Exercise 2-2. (continued)



Student Name:	Section:
Instructor Name:	Date:

Exercise 2-2. (continued)



b. Bach: French Suite No. 1, BWV 912, Gigue



Exercise 2-2. (continued)



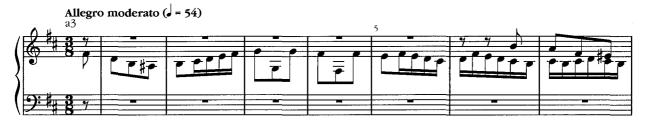
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Exercise 2-2. (continued)



### Exercise 2-2. (continued)

d. Bach: Well-Tempered Clavier II, BWV 893, Fugue No. 24









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Exercise 2-2. (continued)



Exercise 2-2. (continued)



Student Name:	Section:
Instructor Name:	Date

Exercise 2-2. (continued)

e. Beethoven: Piano Sonata, op. 106, fourth movement



f. Mendelssohn: Sonata No. 6 for organ, op. 65, second movement





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Instructor Name:	Date	

Exercise 2-2. (continued)



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### LABORATORY EXPERIENCES

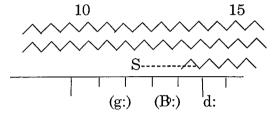
- **Exp. 2-1.** Listen to the fugues or fugal passages listed below, and answer for yourself these questions:
  - a. Where is the fugal material? Is it present throughout the example?
  - b. When does the subject recur?
  - c. Where are the episodes?
  - d. Can you hear the main key areas in relation to the tonic?
  - e. Are there instances of stretto?
  - f. Are there more subjects or countersubjects than usual?

### **Listening List**

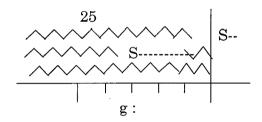
- 1. Handel: Messiah, No. 25, "And With His Stripes We Are Healed"
- 2. Handel: Messiah, No. 28, "He Trusted in God"
- 3. Handel: Messiah, No. 53, "Worthy is the Lamb"
- 4. J. S. Bach: Magnificat, No. 9, Sicut erat
- 5. Mozart: Requiem, Kyrie
- 6. J. S. Bach: Orchestra Suite in D, first movement
- 7. Haydn: String Quartet, op. 20, no. 5, fourth movement
- 8. Mendelssohn: Elijah, No. 43, "And Then Shall Your Light Break Forth"
- 9. Verdi: Requiem, Sanctus
- Verdi: Requiem, Libera me
- 11. Brahms: A German Requiem, sixth movement, "Denn wir haben"

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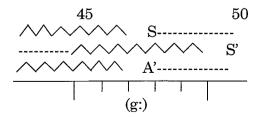
V	ol 💮	Boo	ok Page Change
	Text	t	
2	tx	13	ex.1-18 bracket should be UNDER mm.1-2
2	tx	17	ex.1-25 bracket UNDER Inv. ctrpt. in mm.2-4
2	tx	21	ex.2-2a m.3 of answer = $a$ #, not a natural
2	tx	34	chart, move Bass S from mm.10 12 to mm.11-13



2 tx 34 chart, add alto S----- from mm.26-28



- 2 tx 34 chart, extend alto ----- into m.44
- 2 tx 34 chart, move bass A'--- to m.47



- 2 tx 34 chart, the word "meiodic" in the LH border should be "melodic" (appears twice.)
- 2 tx 74 ex.4-8c key sig. = 3 flats
- 2 tx 81 ex.4-17c m.3 B natural in RH, not A natural
- 2 tx 110 ex.5-14 m.4 tie RH grace notes

```
122 ex.6-5 m.8 reduction, add B flat treble
   tx
2
        145 ex.7-5 m.15 B natural
   tx
        155 ex.7-15 m.14 needs c: with bracket for the pivot chord
   tx
        159 ex.7-18 move RH from m.10 to m.9
   tx
        161 ex.7-19 m.5 below the bIII & in there must be a circled 5 5, not a circled 6 6
   tx
        175 ex.7-26 m.23 LH piano bass = E-flat, not D
   tx
        177 ex.7-26 m.29 RH piano 4th beat = B-flat, not D
   tx
        186 ex.8-1a The instrument name C.ap, should really be C. a p.
   tx
        189 add x4 after S: for Fl(1&2) so that S:Fl(1 & 2) will be Sx4: Fl(1 & 2)
   tx
        193 ex.8-7a omit text over vln I, mm.1-3
   tx
        194 ex.8-7 viola part, must omit m.5 number!!
   tx
        208 3rd paragraph m.29, not 28
   tx
        212 the word "dynamic" should be "dynamics"
   tx
        221 ex.10-1 m.66 LH 2nd note should be C, not B
   tx
        223 ex.10-1 m.102 RH 1st of the two 8ths should be G#, not G natural
   tx
        266 ex.12-2 m.24 downarrow with single slash
   tx
        267 ex.12-2 at end of m.40 change downarrow to have 2 slashes
   tx
        267 ex.12-2 at end of m.48 put downarrow with 3 slashes
   tx
        285 ex.14-1 d,e,f,g use c# f# g#
   tx
        288 ex.14-4a place below the staff..."chromatic parallelism with M triads"
   tx
        288 ex.14-4b place below the staff "chromatic parallelism with enharm. M3s"
   tx
        288 ex.14-4c place below the staff "chromatic parallelism with Mm7"
   tx
        289 ex.14-5 place below staff "chromatic parallelism with M, m, A triads"
   tx
        311 middle analysis: Sx4 with (3)R & R with heterophony bracket
   tx
      Note below the dashed line that should be added:
     Sx4
  ; (3)R
     R
        313 top analysis Svx Sx int and S int R combined with full coupling bracket [see separate sheet]
   tx
        352 ex.16-24 m.4 the top letter of the M/M should be a small m
   tx
        358 line 4 replace "the" with "they"
   tx
        360 ex.16-33 m.3 last beat in viola needs 8th beam slash for repeated notes
   tx
        396 paragraph 1 line 5 replace "the lowest tone" with "an end tone, the lowest tone if the ends are the same."
   tx
        396 paragraph 2 line 3:add "The normal form of the first set in example 18-12 is D-F#-A-Bb, closer to an end tone than F#-
   tx
            A-Bb-D"
        400- paragraph 2 line 7: M3 should be m3, and m6 should be M6.
   tx
        404 ex.18-14 m.2 vln on beat 2 = [0,1,5] not [0,1,4]
   tx
        406 ex.18-16b, top staff, m.1 last tone = E-flat
   tx
```

- 2 tx 419 paragraph 2 omit all words including and between--- "the phrase at...; however."
- 2 tx 419 paragraph 2 change mm.51-58 to 1-8 and 56-69 to 9-19
- 2 tx 420 ex.18-22 m.67 the down arrow should be an up arrow with 4 slashes
- 2 tx 422 ex.18-22 m.15 the dash-line after the up arrow should extend all the way to the down arrow
- 2 tx 430 ex.19-4 m.1 Kl.=A natural, not F natural
- 2 tx 433 ex.19-6a has asterisk demanding footnote: "\* actual pitch"
- 2 tx 436 ex.19-8b 3rd note=C natural, not E natural
- 2 tx 436 ex.19-8b 3rd note = c natural not E
- 2 tx 477 In outline III.G.1.a. add just before final paren "etc."
- 2 tx 485 Glossary: free tonality needs definition: "music with tonal center but free, unscaled selection of 9 to 12 tones.

### Workbook

- 2 wb 15 exr.15-6 sample m.4 =  $Mm_M13$  in steps 6 and 7
- 2 wb 16 exr.2-2d. refer to ex.2-11, also in exr.2-2d.2.
- 2 wb 27 exr.2-2e add barl; ine in sys.3 mm.268-269 (mm.4-5 of the sys.)
- 2 wb 50 exr.3-2 sample: change  $2^{-1}$  to  $7^{-8}$
- 2 wb 60 exr.4-1b m.1 LH, F not A
- 2 wb 61 exr.4-1c m.7 LH GCEG, not Ab
- 2 wb 77 ewxr.5-1a(1b) m.2 top voice g#, not b#
- 2 wb 81 exr.5-1f m.13 vln c natural, no c#
- 2 wb 86 exr.5-3j add IV in progression; II6 V/IV IV V9 I
- 2 wb 105 exr.7-la m.7 beat 4 RH last note in sop Ab, not Bb
- 2 wb 105 exr.7-1a m.9 beat 4 RH: last notes in RH = Ab, not G, and Cb, not Bb.
- 2 wb 105 exr.7-1a mm.4,5,6,7 all f natural, not f-flat
- 2 wb 108 exr.7-1d m.1 RH 3rd beat, G natural
- 2 wb 165 exr.10-2a m.1: "piuttostso" should be changed to "piuttosto"
- 2 wb 195 exr.11-1.b m.97, NO flat on the C in LH
- 2 wb 202 exr.11-1c m.40 LH = Ab, RH = Ab
- 2 wb 205 exr.11-1d m.114 RH sop = C, not E
- 2 wb 226 exr.12-1a m.68 1st note = E
- 2 wb 230 exr.12-1b systems 2 & 3 from p.231 belong at top of p.230
- 2 wb 233 exr.12-1c tempo: dotted quarter = 84
- 2 wb 236 exr.12-1c m.167 1st note in LH = F#
- 2 wb 237 exr.12-1d m.7 LH, 1st beat down beat = G, not Ab
- 2 wb 297 exr.14-1.7. m.2 beat 3 RH top = G natural (g2)
- 2 wb 299 exr.15-2c.2. item f) Mm--M13 (two dash-lines must be seen, not one!)
- 2 wb 308 exr.15-1b m.10 LH bass = Bb
- 2 wb 313 exr.15-2e,f,g: change 14- to 15-
- 2 wb 314 exr.15-2a m.27 lowest alto = octaves with the sop, RH 3rd note of triplet = C#, not B

- 2 wb 314 exr.15-2a m.32 RH last chord has C natural, not C#
- 2 wb 316 exr.15-2a m.65 should be F natural, not Fb
- 2 wb 317 exr.15-2a m.78 LH add E on top of middle note of the triplet; omit A below in 2nd tenor.
- 2 wb 317 exr.15-2a sys.2 m.78 LH beat 1, triplet middle note E# + C#, not E# + A#.
- 2 wb 318 exr.15-2a m.96 omit words etc. above staff.
- 2 wb 319 exr.15-2a m.118, 2 top tones in middle of triplet = B-& F#, not A & E
- 2 wb 323 exr.15-3a m.36: 8-----
- 2 wb 330 exr.15-6 sample m.4 Mm--M13, two dash lines must be visible
- 2 wb 345 exr.16-3a: d4 should be d5
- 2 wb 382 exr.18-2 sample: the a should be 1, and the b should be 2.
- 2 wb 382 exr.18-4b item 1 should have a bass clef, not treble
- 2 wb 391 exr.18-6 5) should say: © John Vander Slice Used by permission
- 2 wb 400 exr.19-1c m.2 delete (G) in cello part
- 2 wb 400 exr.19-1c m.2 : vln 1 & 2 = eb, not G natural
- 2 wb 400 exr.19-1c m.10 cello 2nd note = g#, not g natural, and 9th note = Eb, not E natural
- 2 wb 415 exr.20-1b mm.2-3: tie B to B