CHAPTER

Tonal Structure

All musical elements considered thus far—melody, bass line and harmonic structure, and linear motions—are essential considerations of Schenkerian analysis. As a first step, it is beneficial to focus on a single element, such as melodic structure, but it is crucial to remember that these aspects are not independent but are dynamically interrelated. In analysis, all facets of the harmonic (vertical) and contrapuntal (horizontal) dimensions should be examined together.

In this chapter we explore how these dimensions work interactively to form tonal structure in its broadest sense. We also introduce graphic symbols, which are used to illustrate compositional techniques in a structural analysis. Schenker's system of graphic notation includes various symbols, such as slurs and those used in rhythmic notation; these acquire new meanings in graphs, as you have seen in some of the previous examples.

You may also notice that many of the analyses in this book do not, for instance, indicate aspects of rhythm and dynamics. A Schenkerian graph illustrates (for the most part) the interrelationships among harmony and counterpoint over various structural levels of a composition. In the Appendix we present an *Introduction to Graphic Notation*, which we urge you to refer to as you read this and subsequent chapters. For now we present a brief description of some of the most commonly used symbols.

Notational Symbols¹

- 1. *Unstemmed filled noteheads* indicate notes that form part of the immediate musical context, but are not part of the larger framework.
- 2. *Stems* added to black noteheads designate a broader structural significance. The relative length of the stem may further distinguish various

levels of structure. For instance, noteheads with long stems belong together and form part of a higher level of structure than noteheads with shorter stems.

- 3. *Open noteheads* are normally used to indicate those tones that are on the highest level of the structure.
- 4. *Parentheses* around a note indicate a tone that is implied by a specific context, but is not actually present. Occasionally parentheses may be used to isolate a sounding tone or series of tones that are functionally independent from the surrounding context.
- 5. *Beams* and *slurs* group related tones, such as arpeggiations, linear progressions, and neighboring motions, and show unified spans on all levels of structure.
- 6. Broken slurs (or ties) indicate the retention of a single pitch over a broader span, usually after the intervention of other tones. Broken beams are similarly used by some analysts.
- 7. *Arrowheads* are sometimes added to slurs or lines indicating the direction of a motion.
- 8. Roman numerals denote primary structural harmonies.

Some of these graphic symbols appear in Example 5.1b, which depicts the voice-leading structure of a phrase from the Trio of Haydn's String Quartet, Op. 64, No. 6 (Example 5.1a).

- **1.** The bass notes are written with open noteheads to depict the structural functions of I and V.
- 2. The diagonal line in bars 1-2 visually realigns notes that belong together (at the same level) in the imaginary continuo but that occur "out of phase" at the surface of the music. Conceptually, $b^{\flat 2}$ belongs over the initial E^{\flat} in the bass, the structural tonic of the phrase.
- 3. In the upper voices, upward stems normally indicate top-voice tones, while downward stems denote tones of inner voices (sometimes upward stems indicate inner-voice tones that function locally in a "temporary" top voice). This notation is analogous to the notation for four-part writing, but it can also represent two polyphonic interwoven voices.
- 4. Unstemmed notes have several meanings. They indicate melodic tones not part of the underlying harmony, such as the passing tone g^2 in bar 3.
- 5. Broken ties indicate associated tones (those with the same function) that recur after intervening notes, such as B^{\flat} at the anacrusis and in bar 2 (the same tone occurring in different registers) and $a^{\flat 2}$ in bars 3 and 6. The influence of $a^{\flat 2}$ in this phrase—even when it is not literally sound-ing—is present throughout bars 3–6 because of the underlying expansion of dominant harmony. This phenomenon is referred to as the *implied retention of a tone*. In later chapters we will examine this aspect of melodic structure in greater detail; one usual condition of reading implied tones is that they belong (explicitly or implicitly) to the underlying harmony (to the imaginary continuo).

(a) Haydn, String Quartet, Op. 64, No. 6, Trio, bars 1-8; (b) analytical interpretation







Tonal Structure and the Ursatz

One of Schenker's most far-reaching discoveries was the realization that the types of harmonic progression and voice-leading patterns of a single phrase or section of a musical work can also serve as the basis for longer sections or, indeed, whole compositions. Our next example is a passage from the Trio of Mozart's *Eine Kleine Nachtmusik* (Example 5.2). We use this phrase to introduce some of the essential features of the *Ursatz*, or *fundamental structure*.

We begin our analysis with the imaginary continuo (Example 5.3). As we discussed in Chapter 3, the realization is a simple chordal reduction of the musical surface; the motion of the upper voices (the performer's right hand) should be compact and not involve large leaps. In this case we begin with the bass, which is

Example 5.2

Mozart, Trio from Eine Kleine Nachtmusik, K. 525, bars 1-8



Mozart, Trio from Eine Kleine Nachtmusik, K. 525: imaginary continuo



simpler than the more ornate upper voice. The structural progression includes I, V^7 , and II⁶. Notice also that we regard A as the main upper-voice tone, although D and F[#] are certainly logical choices for the D-major tonic of the imaginary continuo. Because the tonic triad involves three tones, the analysis may proceed from three possible points of departure; one path, however, usually serves as the best higher-ranking line—that which serves as an overarching melodic framework for a passage, section, or piece. In Mozart's Trio, the line from A appears to account best for the descending, melodic framework of the phrase.

Example 5.4 shows graphic representations of different levels in Mozart's phrase (we discuss the notion of structural levels later in this chapter). Example 5.4a preserves much of the surface detail, the diminution that elaborates the structural upper voice in its motion from $\hat{5}$ to $\hat{1}$; this line is supported by a bass progression that moves from the tonic toward the perfect authentic cadence in bars 7-8. (For more on the meaning of the symbols, consult the Appendix on graphic notation.) The open noteheads, slurs, and partial beams indicate two interlocking motions: I-V⁷-I and I-II⁶-V⁷-I. From a broader perspective, shown by the second strand of Roman numerals immediately below the first, the initial tonic is prolonged until II⁶ appears in the T-Int-D-T framework of the phrase (also indicated in the example). Example 5.5 further illustrates that Mozart's diminutions in the upper voice are not merely decorative, but are organically related to each other and to the underlying melodic framework. Our analysis uses brackets (Example 5.4a) to portray repeated motions through the interval of a third; such repetitions of a characteristic motive are referred to as motivic parallelisms.²

Our imaginary continuo realization (Example 5.3) suggests the prominence of A (over tonic harmony) in bars 1–2, which is established with an initial third-progression from F^{\sharp} . Example 5.4a shows the elaboration and prolongation of A before it moves to G, the next upper-voice tone of the imaginary continuo. The path of the upper voice (at the surface) actually extends beyond A to high D before the line reverses direction and reestablishes A at the conclusion of bar 2. We interpret the D (as well as the initial F^{\sharp}) as belonging to the inner

Mozart, Trio from Eine Kleine Nachtmusik, K. 525: multileveled voice-leading graph







Mozart, Trio from Eine Kleine Nachtmusik, K. 525: repetitions of characteristic motive



voices of the imaginary continuo, indicated by the arrow in Example 5.4a. The technique of placing an inner-voice tone above a main tone of the upper voice is called *superposition*.³

The longer-range influence of A in bars 1–2 exemplifies what Schenker called the "mental retention" of a tone; in this case, a "covering line" from the inner voice of the polyphonic texture prolongs and retains the structural top-voice note. While the subsidiary motion is active, the main tone is still conceptually present, but at a *deeper level*—one that is temporarily static, literally without activity and motion. To use Schenker's words, the A on the downbeat of bar 1 "combines within itself a mental retention, . . . a motionless state and an actual motion."⁴ In our example, the actual motion results from the passing tones that fill in the fourth produced by the superposition.

When the harmony changes to V^7 , G becomes the main upper-voice tone and is decorated in a manner similar to the elaboration of A in bar 1. Notice that Mozart introduces disjunct motion into the line with the downward leap from high B to E over the sustained V^7 (bars 3–4). In general, a disjunct and wide-ranging upper voice usually signals inner-voice motions that elaborate the structural melody. In this case, the decorating B leads to E, which belongs to an "alto" voice of the texture (compare Examples 5.3 and 5.4a). Nevertheless, G is retained at a deeper level, because V^7 is still active as the harmonic support. As V^7 moves to I, G resolves to F[#], the next tone in the melodic framework.

This passage also illustrates a principle that suggests a rule of thumb regarding the *intermediate harmonies* of structural harmonic progressions: when they prepare higher-ranking dominants, intermediate harmonies often support correspondingly high-ranking tones of the upper voice. In this case, the II⁶ supports scale degree $\hat{2}$, which belongs also to V and leads to $\hat{1}$ at the conclusion of the phrase.

Example 5.4b shows less detail than Example 5.4a; only the superposition and third-motives are indicated relative to the higher-ranking tones of the melodic framework. In preparing graphic representations, analysts must decide which motions to retain in depicting various levels of tonal structure. We retain the third-motives because we hear them as motivic gestures that unify the upper voice and distinguish this passage from other passages incorporating a descending line from $\hat{5}$.

We may now begin to form some general theoretical observations about tonal structure. We have considered Mozart's phrase as if it were a complete piece for

ease of illustration and discussion, not because it could actually stand alone as an autonomous composition. Nevertheless the tonally complete, nonmodulating phrase displays in microcosm many of the same characteristics that shape much longer spans of music, including complete pieces. We have chosen the phrase as our point of departure because a phrase that ends with a perfect authentic cadence is often the smallest complete tonal structure found in compositions.

Considered collectively, the illustrations in Example 5.4 constitute a multilevel *voice-leading graph* (*Urlinie-Tafel*). Such depictions illustrate in graphic form the voice leading of the harmonic and contrapuntal structure of a passage or piece. And by showing various stages of reduction, in which the detours, prolongations, and tones of figuration are gradually removed, we arrive at a representation of the most fundamental structure of the phrase—the *Ursatz* (Example 5.4c).

As Schenker's ideas developed, he realized that such a fundamental structure underlies phrases, sections, and entire compositions. As a theoretical construct, the *Ursatz* symbolizes the most essential melodic and harmonic components of a tonal composition and consequently has far-reaching ramifications for the ways in which musicians understand the general principles of tonality. We shall, therefore, examine the characteristics of the *Ursatz* in some detail.

The Bass Arpeggiation (Bassbrechung)

Example 5.6 shows schematically two of the *Ursatz* patterns that arise in tonal composition. Notice that the bass motions are the same for both patterns. As we noted in Chapter-3, the primary harmonic progression in tonal music is I–V–I; the bass "linearizes" the tonic triad through a disjunct arpeggiation, by moving from the root to the upper fifth and back again. Schenker referred to this motion as the *bass arpeggiation (Bassbrechung)*. In *Free Composition* Schenker initially represents the *Ursatz* without an intermediate harmony, although in later examples he shows how they may function in relation to I and V. The occurrence of certain intermediate harmonies—as in the case of IV moving to V—introduces stepwise motion in the disjunct bass arpeggiation (I–V–I). In fact, the introduction of melodic motion *intensifies* the motion toward the dominant. Ultimately, however, Schenker regarded intermediate harmonies as subsidiary to the tonic and dominant scale steps.

The Fundamental Line (Urlinie)

Schenker used the term Urlinie (fundamental line) to refer to the descending, stepwise upper voice of the Ursatz. If we focus our attention momentarily on the first pattern, the descent from $\hat{3}$, we can sharpen our understanding of what the Urlinie signifies. The motion from $\hat{3}$ to $\hat{1}$ linearizes ("horizontalizes") the lower interval of the tonic triad: compare the Ursatz pattern to its vertical, chordal representation. Scale degree $\hat{2}$, then, is a passing tone, made consonant by the dominant tone in the bass. The Urlinie thus abstractly represents the melodic

The Ursatz forms



dimension of tonal music; it is a linear manifestation of tonic harmony, a linear progression in which the intervals of the tonic triad are filled in by passing tones. Indeed, the *Urlinie* is the highest-level linear progression of an entire piece or movement.

The second part of Example 5.6 shows an *Urlinie* that begins on the fifth of tonic harmony. This *Urlinie* traverses the entire span of the tonic triad: the tones 5-3-1, representing an arpeggiation of tonic harmony, are filled in with the passing tones 4 and 2. The "5-line" can be a more problematic musical construct than a "3-line," at least theoretically, because of complications in the support of one or more of its tones.⁵

It is important at this point to underscore a characteristic of the Urlinie: the fundamental line descends from the initial tone to the final $\hat{1}$. The reason for this aspect of Schenker's theory is that he considered the first tone of the Urlinie—the primary tone—as an "image" or representation of the overtone in an overtone series of which the tonic note is the fundamental.⁶ He therefore considered the descending motion to be the most direct path for this "overtone" to return to its fundamental, a direction that also corresponds to a release of musical tension (Schenker made a distinction between ascending and descending motion in his writings on counterpoint.) In Western music since the Middle Ages, and in the music of many other cultures as well, falling melodic motion has been characteristic of cadences and endings. This may reflect an innate sense of a correspondence of musical motion with physical motion, and with the force of gravity (and the essential fact that things on earth fall down, not up). Thus we can see why it is theoretically feasible for an Urlinie to begin from an upper tone of the tonic triad, but not from $\hat{1}$ (which is conceptually a point of rest).⁷

The fundamental structure therefore consists of two components, the fundamental line and the bass arpeggiation. The fundamental line is a *stepwise*, horizontal expression of tonic harmony: in Mozart's Trio, the tones 5-3-1 of the tonic triad are filled in by passing tones (4 and 2). The only other theoretical possibilities for the fundamental line are 3-2-1 (3-1 filled in by one passing tone) and the much less frequently encountered 8-7-6-5-4-3-2-1 (8-5-3-1 filled in by four passing tones). The bass arpeggiation also expresses the tonic

triad in the horizontal dimension, but through a *disjunct* arpeggiation from the root to the upper fifth (dominant) and back again.

Structural Levels

We have seen that not every association in tonal music occurs between adjacent pitches. Schenker came to this realization gradually, as he discovered ways in which the principles of melodic fluency and harmonic organization operate beneath the surface of musical compositions. In the 1920s, when his theoretical ideas were developing into their final form, he eventually recognized that tonal compositions consist of a continuum of interrelated structural levels: *each is based on and is related to the others through similar harmonic and contrapuntal procedures.* The theory of structural levels has revolutionized the way many theorists and musicians understand music, and it is perhaps Schenker's greatest discovery.

The representations in Example 5.4 (from Mozart's Trio) illustrate the three "realms" of structural levels commonly associated with Schenker's theory of tonal structure. If we regard Mozart's phrase as a complete piece (for purposes of explanation), then the graph of Example 5.4a—which shows most of the notes in the original music and some of the simpler nonadjacent tonal associations—depicts the *surface* and *foreground* levels. The graph in Example 5.4c, however, shows only the fundamental line and bass arpeggiation (with an intermediate harmony). We have already identified this representation as the *Ursatz*; but when considered the final step in a series of successive reductions, it is also referred to as the *background* level. In the middle is, quite literally, the *middleground* level (Example 5.4b), which conveys motivic features and the broader harmonic and contrapuntal motions that reside between the foreground and the background.

Bear in mind that we are not suggesting that every musical composition consists of three clearly delineated structural levels. Schenker explicitly states in *Free Composition* that "it is impossible to generalize regarding the number of structural levels."⁸ Rather, it is more appropriate to speak of three interrelated *types* of level (the foreground and middleground in particular are pluralistic in nature), which are distinguished by the amount of detail they contain. The more detail, the lower the level, and the "closer" its relationship to the musical surface. In this book we use the adjectives "lower" and "higher" to distinguish relatively among structural levels. A lower level is one closer to the surface and foreground than a higher level, which is closer to the background. These words capture the visual impression of many of Schenker's published examples.⁹

Schenker, like most theorists today, used the terms fundamental structure, fundamental line, and bass arpeggiation in the most general sense to describe the basic structure of an entire piece. In this chapter we departed from this usage for clarity of discussion. As you may recall, the later excerpts are brief but self-contained tonal structures, and we used the term Urlinie, for instance, to refer to the main upper-voice line of the passage. One often finds in tonal music patterns that replicate or "parallel" in miniature the patterns that serve as fundamental structures (Ursätze), for entire pieces; some theorists refer to such patterns as "Ursatz parallelisms."¹⁰ In Chapters 6 and 7, we will for convenience retain

this informal usage of these terms (in Chapter 7 we examine *Ursatz* parallelisms in considerable detail). In the complete analyses of Part II (Chapters 8–12), we will follow Schenker's usage more closely and will provide additional conventions (in the text and in the examples) to distinguish the *Ursatz* and *Urlinie* of a complete piece from versions at more immediate structural levels.

The Principle of Interruption

We now revisit the opening of the slow movement from Mozart's Piano Sonata, K. 545 (review the discussion of Example 3.1); Example 5.7 presents the score of both the antecedent and consequent phrases. Example 5.8 presents two levels of the antecedent phrase in bars 1–8. Study the graphs in Example 5.8 and you will notice obvious differences between this phrase and the beginning of the Mozart Trio shown in Example 5.4. At the same time, you will discover that the two phrases are similar in important respects. It bears repeating that Schenker's approach reveals general principles underlying many compositions as well as individual features that characterize each piece as a unique work of art. Because Example 5.8 is similar to Example 5.4, we refrain from extensive commentary and present a list to highlight certain aspects of this phrase.

- 1. Notice the opening gesture, which establishes 5 as the first tone—the primary tone—of the fundamental line; a similar beginning characterizes the Trio.
- 2. As in the Trio, covering lines reside above the higher-ranking tones of the *Urlinie*, resulting from passing tones in combination with superpositions (indicated by the arrows in Example 5.8).
- 3. The c^2 in bar 5 in one sense appears to move, as a lower neighbor, back to d^2 (5) in bar 6. Although this interpretation makes sense from a surface-level perspective, it is also true that c^2 moves down, as the seventh of V_3^4 , to an implied inner voice b^1 of the imaginary continuo. As a result, the c^2 embodies the qualities of both a passing tone and a neighboring tone.
- 4. In the Sonata phrase, e² plays a significant role in the covering lines (the melodic activity) that elaborate the fundamental line. Example 5.8b shows a deeper level of structure, revealing that E is an upper neighbor to D (scale degree 5). Notice that E functions both as a *complete* neighbor (bar 3) and an *incomplete* neighbor (bar 7) at this level. The incomplete neighbor ô leading to 4 is a common feature of the tonal system (as is 4 moving to 2 in a fundamental line beginning on 3).

A comparison of Examples 5.4b and 5.8b reveals the structural difference between the phrases. In the Trio (Example 5.4), Mozart concludes with a perfect authentic cadence, which means that both the fundamental line and bass arpeggiation completely run their course (they lead to $\hat{1}$ over I at a local level). In bar 8 of the Piano Sonata, however, Mozart "breaks off" the structural

Mozart, Piano Sonata, K. 545, II, bars 1-16



Mozart, Piano Sonata, K. 545, II, bars 1-8: (a) and (b) analytical representations



motions at $\hat{2}$ over V (Example 5.8b). In effect, the paths of the fundamental line and bass arpeggiation are *interrupted* before closure is achieved. Schenker would say that the initial succession in the upper voice "is the first attempt at the complete fundamental line."

After the half cadence in bar 8, the consequent phrase begins like the antecedent; this time, however, the fundamental line and bass arpeggiation achieve closure ($\hat{1}$ over I) at the conclusion of the phrase. Example 5.9 shows the final part of the phrase (bars 14–16), a few details of which warrant comment. Notice the recurrence of $\hat{6}$ as an incomplete neighbor to $\hat{5}$. The upper neighbor to the primary tone is one of the few decorations that apply to the fundamental line at the *first level of the middleground*. In fact, $\hat{6}$ and $\hat{4}$ often occur together; in some cases, scale degree $\hat{6}$ may actually *substitute* for $\hat{4}$ in a descent. Finally, notice in the score that the surface line pushes upward to b^2 in bar 14, a tone that decorates the highpoint a^2 from bar 7 of the first phrase (these tones are not shown in the

Mozart, Piano Sonata, K. 545, II, bars 14-16: (a) and (b) analytical representations



reductions). We might say that Mozart—at a lower level—is striving upward against the downward "pull" of the fundamental line (Example 5.9b).

Now compare Examples 5.8b and 5.9b and you will discover that two structural motions (corresponding to the antecedent and consequent phrases) articulate Mozart's period structure: $\hat{5}-\hat{4}-\hat{3}-\hat{2}\|\hat{5}-\hat{4}-\hat{3}-\hat{2}-\hat{1}$. We refer to the segments as the two "branches" of an interruption (the term is not Schenker's, though it is a useful one). Example 5.10 shows the two branches in the most concise form possible.

The common interrupted Urlinie patterns are $\hat{3}-\hat{2}\|\hat{3}-\hat{2}-\hat{1}$ and $\hat{5}-\hat{4}-\hat{3}-\hat{2}\|$ $\hat{5}-\hat{4}-\hat{3}-\hat{2}-\hat{1}$. Bear in mind that $\hat{2}$ over V—at the conclusion of the first branch does not lead to $\hat{3}$ or $\hat{5}$ over I at the beginning of the second branch; in other words, in a line from $\hat{3}$, the first $\hat{2}$ is not a lower neighbor to the $\hat{3}$ of the second branch. The structural motions cease at $\hat{2}$ over V; at the surface and foreground,

The two branches of an interrupted Ursatz from 5



however, a "link" often connects the two branches (as in bar 8 of Example 5.7). We will see in subsequent examples how the interruption principle shapes various structural levels, with far-reaching ramifications for the development of form and content.

More on the Ursatz

Previously we introduced one of Schenker's central concepts: the Ursatz (fundamental structure), which comprises the Urlinie (fundamental line) and the Bassbrechung (bass arpeggiation). We now investigate more thoroughly the meaning of these interrelated formations. Example 5.11 shows some of the basic ways in which the bass arpeggiation is elaborated.¹¹

The patterns in a and b show perhaps the most common intermediate harmonies: II, IV, and II⁶. Notice both the melodic and harmonic relationships embodied in both of these diagrams. In the case of a, the supertonic is melodically related to the tonic (the bass moves by step). It is also harmonically related to the forthcoming dominant: the bass moves up a fourth (or down a fifth) to V, simulating the harmonic leap from V to I. In b the situation is reversed, with IV or II⁶ related to V melodically as well as harmonically. All of these harmonies, of course, intensify the motion from I to V.

The pattern in c is more neutral in character because of the common tones shared by I–III–V. Notice also that the bass on its way to V completely arpeggiates the tonic triad: $\hat{1}-\hat{3}-\hat{5}$. This progression is more goal oriented if elaborated by one or two additional tones and chords (see Figures 14.2a, 14.3a, and 14.4a in *Free Composition*). A motion to III is more characteristic of the minor than of the major mode because the major mediant chord (relative major) offers an effective contrast to the minor tonic.

The patterns we have discussed thus far all involve ascending motion from I to V. For Schenker, the basic position of V is *above* I, because it occurs in the overtone series; the most important elaborations of I–V–I result from partially

Elaborations of the bass arppeggiation



filling in the space between I and the upper V. Progressions moving from the tonic *down* to the dominant are variants of the rising form; three possibilities are illustrated in the final three diagrams of Example 5.11. Schenker, however, considered the position of V above I as more fundamental.¹²

Now that we have examined these essential bass patterns, we turn our attention to the structural upper voice. Schenker considered the *Urlinie* a linear expression of tonic harmony (Example 5.12). The fundamental line originates in the *vertical* triad, which is arpeggiated and then filled in with one or more passing tones (an idiom from second species counterpoint) to become the descending stepwise component of the *Ursatz*. (In principle, *all* of the tones between the first and last are passing tones.)

Example 5.12

Conceptual origin of the Urlinie



Example 5.12 shows an *Urlinie* that begins with $\hat{3}$, the third of tonic harmony. Relative to the root of tonic harmony, scale degree $\hat{2}$ is a dissonant passing tone. The bass expresses tonic harmony through arpeggiation, but it does so through a motion that remains *disjunct*. The resulting bass arpeggiation through V provides consonant support for the passing $\hat{2}$.

The transformation of a dissonant passing tone into a consonant passing tone (through harmonic support) holds far-reaching ramifications in Schenker's theory. From strict counterpoint we learn that a dissonant passing tone connects two consonances and consequently depends on a consonant framework for its meaning; the dissonant passing tone by itself cannot lead to further musical development (that is, to further elaboration). In free composition, however, which integrates counterpoint and harmony over various structural levels, the consonant passing tone can become the point of departure for linear progressions and even subordinate key areas. Scale degree $\hat{2}$ over V, for instance, often serves to initiate a subordinate key area (an *Ursatz parallelism*), which expands the main tonic of a composition.

Example 5.13 illustrates the Ursatz formation with $\hat{5}$ as the primary tone.¹³ This pattern is more problematic than an Ursatz beginning on $\hat{3}$, at least from a theoretical perspective, because of scale degree $\hat{4}$, which is dissonant against the fundamental of the tonic.¹⁴ Schenker states that "in this context the first part of the fundamental line $\hat{5}$ – $\hat{4}$ – $\hat{3}$ has more the effect of a transiently filled space of a third . . . [which] creates a certain void, or unsupported stretch, at the very outset of the fundamental line of a fifth."¹⁵ Even with the support of the dominant, scale degree $\hat{4}$ remains dissonant (a seventh above the bass). As Carl Schachter has explained, however, "The consonant support of each note of the fundamental line is not an overriding issue for Schenker, though it is one that he takes into account in his interpretations of the middleground."¹⁶

Example 5.14 illustrates in schematic fashion some of the ways in which the segment $\hat{5}-\hat{4}-\hat{3}$ can be worked out. A very common possibility, shown in *a*, occurs when scale degree $\hat{4}$ is provided the consonant support of the octave, a contrapuntally stable interval (compare to V⁷) that yields the intermediate IV harmony



Ursatz formations from $\hat{5}$



of the bass arpeggiation (a II^6 is also possible here). You will notice in our first scenario that when $\hat{4}$ is given consonant support, another unsupported stretch emerges: $\hat{4}$ - $\hat{3}$ - $\hat{2}$. The interesting aspect of this situation is that $\hat{3}$, normally the consonant third of tonic harmony, becomes a dissonant passing tone against the fundamental of the IV chord. In composition, it is quite possible to find such fleeting (and even dissonant) support for $\hat{3}$; as Carl Schachter has also stated, at lower levels "the notes of the fundamental line will possibly evolve in different ways. Some may be richly elaborated, others less richly, still others not at all. Yet each is an essential element in the structure."¹⁷ More typically found, however, is the tonal pattern shown in Example 5.14b. Scale degree 3 remains a passing tone, but in this case it enters as a *consonant* sixth above the root of dominant harmony. As you can see from the figured-bass symbols, this coincidence of the structural upper and lower voices yields the familiar cadential $\frac{6}{4}$, which very often supports structural $\hat{3}$ in a $\hat{5}$ -line. Example 5.14c shows another possibility for the support of 4. In this case, the outer voices form a consonant tenth, which results in an intermediate II harmony; again, $\hat{3}$ is supported by the cadential $\frac{6}{4}$ that signals the beginning of dominant harmony.

In this brief discussion we have not attempted to list every possibility. You can see, however, that the "void" of the unsupported stretch can be reduced through various types of consonant support for $\hat{4}$. Bear in mind, however, that *either* $\hat{4}$ or $\hat{3}$ will almost always be accompanied by a dissonant chord, or by no chord at all (that is, it will remain a passing tone in the foreground).¹⁸

Schenker's theory suggests one more possible Ursatz formation, one that begins from $\hat{8}$ (remember that the tonic triad from which the Urlinie arises can be expressed with the top note in the position of the third, fifth, or octave). Example 5.15, which presents two diagrams from *Free Composition*, shows this possibility.¹⁹ From the first diagram you can begin to see why an $\hat{8}$ -line can be a problematic structure: there are many unsupported tones, even more than in a $\hat{5}$ -line. Although consonant support for all Urlinie tones is not an overriding issue in the analysis of structure, the situation is different in this



more extensive line. The issue is more pressing given the number of unsupported tones, especially *consecutive* unsupported tones. And notice that the second tone of the line is the leading tone, which in the major mode has a marked tendency to move in an ascending, rather than a descending, direction.

The second part of the example shows that two bass arpeggiations may be necessary to support this structural line. Because of the considerable practical considerations involved, $\hat{8}$ -lines are very rare in composition, although they do appear to occur more frequently at structural levels below the background. This aspect of Schenker's theory, while theoretically consistent with its basic principles, is still being considered by those involved with his work.

Pieces for Analysis

- Bach/Petzold, Notebook for Anna Magdalina Bach (1725) BWV Anh. 114, IV, Menuet in G major, bars 9–16
- 2. Mozart, Don Giovanni, Duet, "La ci darem la mano," bars 5-8
- 3. Brahms, Variations on a Theme by Haydn (two-piano reduction), bars 19-23
- 4. Mozart, Six Variations on Salve tu, Domine, K. 398, Theme, bars 1-12
- 5. Schumann, Album for the Young, "Melodie," bars 17-20
- 6. Brahms, Intermezzo, Op. 76, No. 7, bars 1-8
- 7. Beethoven, Piano Sonata, Op. 7, II, bars 1-8
- 8. Schumann, Album for the Young, "Armes Waisenkind," bars 4-8

Notes

- 1. See also Mitchell and Salzer, *Music Forum* I: pp. 260–68, upon which the present listing is partly based. They provide an extensive discussion of graphic symbols together with sample graphs.
- 2. See Burkhart, "Schenker's 'Motivic Parallelisms.'"
- 3. Be careful not to be confused by the reference to "upper voice." The right-hand part by itself is the upper voice, but it is another good example of polyphonic melody—a melody consisting of multiple voices. As soon as we begin to see how the tones are grouped and function in different ways, we can become more specific and further distinguish upper and inner voices of the right-hand part.
- 4. *Free Composition*, p. 38. In Example 5.4a, we show a² in bar 2 also with an open notehead. Although it is expressed as an eighth note, it nevertheless is the top note of the sustained D-major triad (as indicated by the imaginary continuo).
- 5. It is theoretically possible for an *Urlinie* to begin on $\hat{8}$; however, it is a considerably more problematic construct than the $\hat{3}$ or $\hat{5}$ -line. An *Ursatz* from $\hat{8}$ is based on the third possible disposition of the tones of the tonic chord, with a descending scale from $\hat{8}$ to $\hat{1}$ in the top voice. Practically speaking there are considerations—not present in the $\hat{3}$ or $\hat{5}$ -lines—that complicate the working out of such a lengthy linear expression of tonic harmony in actual composition, especially over the span of an entire work.
- 6. They are images in that they are manifestations of naturally occurring overtones that are not usually noticed in listening to a particular tone.
- 7. Since tonal music characteristically embodies a sense of motion—melodic motion as well as harmonic motion—a top voice structure that consists of the prolongation of a single tone is often incompatible with the dynamic nature of major-minor tonality. In other words, the continued prolongation of a single tone can lead to a static quality that is foreign to the "directed motion" inherent in tonal music of the seventeenth through nine-teenth centuries.
- 8. Free Composition, p. 26.
- 9. Many Schenkerians also use the word "deeper" to refer to structural levels that are more or less remote from the musical surface; confusingly enough, a "deeper" level in this usage means exactly the same thing as a "higher" level. The contradiction, however, is more apparent than real, because the notions of deeper and higher both convey, in different ways, the sense of distance from the immediate position of the observer.
- 10. Burkhart, "Schenker's Motivic Parallelisms."
- 11. Some of these patterns are freely adapted from Figure 14 in *Free Composition*. You should study all of the diagrams in that figure to discover how the bass arpeggiation may be further elaborated. Also consult Figures 15–16 to see how the upper voice works in conjunction with these basic patterns.
- 12. Schenker does not show descending motion in his Figure 14, but these progressions also represent valuable compositional resources.
- 13. In a 5-line, it is perhaps clearer that the *Urlinie* is essentially an *arpeggiation* of the tonic triad, with passing tones filling in the motion 5–3–1.
- 14. Scale degree 2, of course, is also dissonant against the fundamental of tonic harmony. The point about the problematic nature of 5-lines is that the dominant can provide consonant support for 2, but not for 4.
- 15. Free Composition, p. 20.
- 16. Schachter, "A Commentary on Schenker's *Free Composition*," pp. 125–26. We highly recommend this article for a lucid explanation of some of Schenker's more difficult theoretical issues.

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- 17. Schachter, "A Commentary," p. 126.
- 18. For a more thorough discussion of the two unsupported stretches and the support for structural 3 in an Urlinie from 5, see Cadwallader, "More on Scale-Degree Three and the Cadential Six-Four." One reason why 4 and 3 can be worked out with such flexibility is that, in principle, all of the tones between 5 and 1 are passing. We again direct you to Schachter's commentary: "The conjunct upper voice [the Urlinie] fills in the 'tone-space' created by horizontalizing an interval of the tonic triad. All of the notes between the first and the last are passing; some are dissonant and some consonant [against the fundamental tone of tonic harmony]." Schachter, "A Commentary," p. 126.
- 19. Free Composition, Supplement, Figure 18/1 and Figure 19/b.

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