

ARCANA XVI

FOR THREE RETUNED SYNTHESIZERS

KYLE GANN
1998

Arcana XVI (1998)

When Joan Tower asked if I would write a piece for her 60th birthday concert, the "Tower" card of the Tarot deck - major arcana number XVI - flashed into my mind. In most decks the card shows a stone tower being struck by lightning, as bricks fly off and two people, a man and a woman, fall out of windows near the top. Drawing the Tower card indicates that Everything You Know Is Wrong, that you're about to have a shake-up in your life that will expand your field of consciousness and show you that you've been operating on too narrow an understanding of things. Joan Tower often has that effect on people, students and colleagues both. In *Arcana XVI* I tried to slowly capture that effect; the piece at first seems so simple, couched in perfectly familiar chords, but soon more complex tunings enter and vastly expand the potential pitch field. I perversely used 24 pitches to the octave partly because Joan once told me she didn't like quarter-tone music, although this uneven scale is far from quarter-tone:

Pitch:

C Db7 Db- D Eb7 Eb Eb^- E F7+ F F+ Gb7

Ratio:

1/1 21/20 16/15 9/8 7/6 6/5 11/9 5/4 21/16 4/3 27/20 7/5

Cents:

0 84 112 204 267 316 347 386 471 498 520 583

Pitch:

Gb^- G G^- Ab Ab^- A Bbb7 Bb7 Bb Bb^- B Cb^-

Ratio:

22/15 3/2 55/36 8/5 44/27 5/3 42/25 7/4 9/5 11/6 15/8 88/45

Cents:

663 702 734 814 845 884 898 969 1018 1049 1088 1161

Although the scale isn't quarter-tone, there are triads in-between other triads that sneak ominously between, say, E-flat major and E minor. Scored for three synthesizers, *Arcana XVI* is my first just-intonation work for live ensemble and without a prerecorded track. The work is dedicated, of course, to Joan.

Kyle Gann

Arcana XVI - Tuning

Key	Actual Pitch	Ratio	Cents above Tonic
C1	G	3/2	702
C#1	G ^{^-}	55/36	734
D1	Ab	8/5	814
D#1	Ab ^{^-}	44/27	845
E1	A	5/3	884
F1	Bbb7	42/25	898
F#1	Bb7	7/4	969
G1	Bb	9/5	1018
G#1	Bb ^{^-}	11/6	1049
A1	B	15/8	1088
A#1	Cb ^{^-}	88/45	1161
B1	C	1/1	0
C2	Db7	21/20	84
C#2	Db ⁻	16/15	112
D2	D	9/8	204
D#2	Eb7	7/6	267
E2	Eb	6/5	316
F2	Eb ^{^-}	11/9	347
F#2	E	5/4	386
G2	F7+	21/16	471
G#2	F	4/3	498
A2	F+	27/20	520
A#2	Gb7	7/5	583
B2	Gb ^{^-}	22/15	663
C3	G	3/2	702
C#3	G ^{^-}	55/36	734
D3	Ab	8/5	814
D#3	Ab ^{^-}	44/27	845
E3	A	5/3	884
F3	Bbb7	42/25	898
F#3	Bb7	7/4	969
G3	Bb	9/5	1018
G#3	Bb ^{^-}	11/6	1049
A3	B	15/8	1088
A#3	Cb ^{^-}	88/45	1161
B3	C	1/1	0
C4	Db7	21/20	84
C#4	Db ⁻	16/15	112
D4	D	9/8	204
D#4	Eb7	7/6	267
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F4	Eb ⁻	11/9	347
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A#4	Gb7	7/5	583
B4	Gb ⁻	22/15	663
C5	G	3/2	702
C#5	G ⁻	55/36	734
D5	Ab	8/5	814
D#5	Ab ⁻	44/27	845
E5	A	5/3	884
F5	Bbb7	42/25	898
F#5	Bb7	7/4	969
G5	Bb	9/5	1018
G#5	Bb ⁻	11/6	1049
A5	B	15/8	1088
A#5	Cb ⁻	88/45	1161
B5	C	1/1	0
C6	Db7	21/20	84
C#6	Db-	16/15	112
D6	D	9/8	204
D#6	Eb7	7/6	267
E6	Eb	6/5	316
F6	Eb ⁻	11/9	347
F#6	E	5/4	386
G6	F7+	21/16	471
G#6	F	4/3	498
A6	F+	27/20	520
A#6	Gb7	7/5	583
B6	Gb ⁻	22/15	663

Arcana XVI: Pitch Key

Sounding:

Written:

The musical score is presented in five systems. The first system shows the initial notation with 'Sounding:' and 'Written:' labels. The second system continues the notation, featuring a treble clef staff in the second measure. The third system shows a treble clef staff in the first measure. The fourth system features a treble clef staff in the first measure and a grand staff (treble and bass clefs) in the second measure. The fifth system features a treble clef staff in the first measure and a grand staff in the second measure. The notation includes various accidentals (sharps, flats, naturals) and articulation marks (accents, slurs) across the staves.

To Joan Tower
Arcana XVI

Kyle Gann
1998

$\text{♩} = 66$

Synthesizer 1

Synthesizer 2

Synthesizer 3

Detailed description: This system contains the first five measures of the piece. Synthesizer 1 is silent. Synthesizer 2 plays a melodic line in 4/4 time. Synthesizer 3 is silent. Above the staves are chord symbols: E^{\flat} , E^{\flat} , F^{\sharp} , and F^{\sharp} .

6

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 6 through 10. Synth. 1 is silent. Synth. 2 continues the melodic line. Synth. 3 is silent. Above the staves are chord symbols: E^{\flat} , F^{\sharp} , E^{\flat} , E^{\flat} , and F^{\sharp} .

23

Synth. 1

Synth. 2

Synth. 3

28

Synth. 1

Synth. 2

Synth. 3

33

Synth. 1

Synth. 2

Synth. 3

37

Synth. 1

Synth. 2

Synth. 3

50

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 50 to 53. Synth. 1 (top) has a treble and bass clef. The treble staff has a melodic line starting at measure 51 with a slur over three notes. The bass staff has a similar line. Synth. 2 (middle) has a treble and bass clef. The treble staff has a rhythmic line of eighth notes. The bass staff has a similar line. Synth. 3 (bottom) has a treble and bass clef. Both staves are mostly empty with a slur underneath the system.

54

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 54 to 57. Synth. 1 (top) has a treble and bass clef. Both staves are empty. Synth. 2 (middle) has a treble and bass clef. The treble staff has a rhythmic line of eighth notes. The bass staff has a similar line. Synth. 3 (bottom) has a treble and bass clef. Both staves are empty.

58

Synth. 1

Synth. 2

Synth. 3

62

Synth. 1

Synth. 2

Synth. 3

66

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 66 to 69. Synth. 1 (top staff) starts with a treble clef, a key signature of one flat, and a common time signature. It features a long note in the first measure, which is slurred across measures 66, 67, and 68, and then continues in measure 69. Synth. 2 (middle staff) has a treble and bass clef. It plays a rhythmic pattern of eighth notes in the treble and bass clefs, with some accidentals (sharps and flats) appearing in measures 67 and 68. Synth. 3 (bottom staff) has a treble and bass clef. It features a long note in the first measure, which is slurred across measures 66, 67, and 68, and then continues in measure 69.

70

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 70 to 73. Synth. 1 (top staff) has a treble and bass clef. It features a rhythmic pattern of eighth notes in the treble clef, with some accidentals (sharps and flats) appearing in measures 70, 71, and 72. Synth. 2 (middle staff) has a treble and bass clef. It plays a rhythmic pattern of eighth notes in the treble and bass clefs, with some accidentals (sharps and flats) appearing in measures 71 and 72. Synth. 3 (bottom staff) has a treble and bass clef. It features a long note in the first measure, which is slurred across measures 70, 71, and 72, and then continues in measure 73.

74

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 74 through 77. Synth. 1 (top staff) features a melodic line with notes G4, A4, B4, C5, and D5, with various accidentals and rests. Synth. 2 (middle staff) plays a rhythmic accompaniment of eighth notes in both treble and bass clefs. Synth. 3 (bottom staff) provides a bass line with notes G2, F2, E2, and D2, including a fermata over the final measure.

78

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 78 through 81. Synth. 1 (top staff) continues the melodic line with notes E5, F5, G5, and A5, featuring a fermata over the final measure. Synth. 2 (middle staff) maintains the eighth-note accompaniment. Synth. 3 (bottom staff) continues the bass line with notes C2, B1, and A1, including a fermata over the final measure.

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82

Synth. 1

Synth. 2

Synth. 3

86

Synth. 1

Synth. 2

Synth. 3

90

Synth. 1

Synth. 2

Synth. 3

94

Synth. 1

Synth. 2

Synth. 3

98

Synth. 1

Synth. 2

Synth. 3

102

Synth. 1

Synth. 2

Synth. 3

106

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 106 through 109. Synth. 1 (top) has a treble clef and a key signature of one flat. It features a melodic line with a half note G4, a quarter rest, a half note A4, a quarter rest, a half note B4, a quarter rest, a half note C5, a quarter rest, a half note D5, and a quarter rest. Synth. 2 (middle) has a grand staff with a treble clef and a key signature of one flat. It plays a rhythmic pattern of eighth notes: G4, A4, B4, C5, D5, E5, F5, G5, A5, B5, C6, D6, E6, F6, G6, A6, B6, C7, D7, E7, F7, G7, A7, B7, C8, D8, E8, F8, G8, A8, B8, C9, D9, E9, F9, G9, A9, B9, C10, D10, E10, F10, G10, A10, B10, C11, D11, E11, F11, G11, A11, B11, C12, D12, E12, F12, G12, A12, B12, C13, D13, E13, F13, G13, A13, B13, C14, D14, E14, F14, G14, A14, B14, C15, D15, E15, F15, G15, A15, B15, C16, D16, E16, F16, G16, A16, B16, C17, D17, E17, F17, G17, A17, B17, C18, D18, E18, F18, G18, A18, B18, C19, D19, E19, F19, G19, A19, B19, C20, D20, E20, F20, G20, A20, B20, C21, D21, E21, F21, G21, A21, B21, C22, D22, E22, F22, G22, A22, B22, C23, D23, E23, F23, G23, A23, B23, C24, D24, E24, F24, G24, A24, B24, C25, D25, E25, F25, G25, A25, B25, C26, D26, E26, F26, G26, A26, B26, C27, D27, E27, F27, G27, A27, B27, C28, D28, E28, F28, G28, A28, B28, C29, D29, E29, F29, G29, A29, B29, C30, D30, E30, F30, G30, A30, B30, C31, D31, E31, F31, G31, A31, B31, C32, D32, E32, F32, G32, A32, B32, C33, D33, E33, F33, G33, A33, B33, C34, D34, E34, F34, G34, A34, B34, C35, D35, E35, F35, G35, A35, B35, C36, D36, E36, F36, G36, A36, B36, C37, D37, E37, F37, G37, A37, B37, C38, D38, E38, F38, G38, A38, B38, C39, D39, E39, F39, G39, A39, B39, C40, D40, E40, F40, G40, A40, B40, C41, D41, E41, F41, G41, A41, B41, C42, D42, E42, F42, G42, A42, B42, C43, D43, E43, F43, G43, A43, B43, C44, D44, E44, F44, G44, A44, B44, C45, D45, E45, F45, G45, A45, B45, C46, D46, E46, F46, G46, A46, B46, C47, D47, E47, F47, G47, A47, B47, C48, D48, E48, F48, G48, A48, B48, C49, D49, E49, F49, G49, A49, B49, C50, D50, E50, F50, G50, A50, B50, C51, D51, E51, F51, G51, A51, B51, C52, D52, E52, F52, G52, A52, B52, C53, D53, E53, F53, G53, A53, B53, C54, D54, E54, F54, G54, A54, B54, C55, D55, E55, F55, G55, A55, B55, C56, D56, E56, F56, G56, A56, B56, C57, D57, E57, F57, G57, A57, B57, C58, D58, E58, F58, G58, A58, B58, C59, D59, E59, F59, G59, A59, B59, C60, D60, E60, F60, G60, A60, B60, C61, D61, E61, F61, G61, A61, B61, C62, D62, E62, F62, G62, A62, B62, C63, D63, E63, F63, G63, A63, B63, C64, D64, E64, F64, G64, A64, B64, C65, D65, E65, F65, G65, A65, B65, C66, D66, E66, F66, G66, A66, B66, C67, D67, E67, F67, G67, A67, B67, C68, D68, E68, F68, G68, A68, B68, C69, D69, E69, F69, G69, A69, B69, C70, D70, E70, F70, G70, A70, B70, C71, D71, E71, F71, G71, A71, B71, C72, D72, E72, F72, G72, A72, B72, C73, D73, E73, F73, G73, A73, B73, C74, D74, E74, F74, G74, A74, B74, C75, D75, E75, F75, G75, A75, B75, C76, D76, E76, F76, G76, A76, B76, C77, D77, E77, F77, G77, A77, B77, C78, D78, E78, F78, G78, A78, B78, C79, D79, E79, F79, G79, A79, B79, C80, D80, E80, F80, G80, A80, B80, C81, D81, E81, F81, G81, A81, B81, C82, D82, E82, F82, G82, A82, B82, C83, D83, E83, F83, G83, A83, B83, C84, D84, E84, F84, G84, A84, B84, C85, D85, E85, F85, G85, A85, B85, C86, D86, E86, F86, G86, A86, B86, C87, D87, E87, F87, G87, A87, B87, C88, D88, E88, F88, G88, A88, B88, C89, D89, E89, F89, G89, A89, B89, C90, D90, E90, F90, G90, A90, B90, C91, D91, E91, F91, G91, A91, B91, C92, D92, E92, F92, G92, A92, B92, C93, D93, E93, F93, G93, A93, B93, C94, D94, E94, F94, G94, A94, B94, C95, D95, E95, F95, G95, A95, B95, C96, D96, E96, F96, G96, A96, B96, C97, D97, E97, F97, G97, A97, B97, C98, D98, E98, F98, G98, A98, B98, C99, D99, E99, F99, G99, A99, B99, C100, D100, E100, F100, G100, A100, B100, C101, D101, E101, F101, G101, A101, B101, C102, D102, E102, F102, G102, A102, B102, C103, D103, E103, F103, G103, A103, B103, C104, D104, E104, F104, G104, A104, B104, C105, D105, E105, F105, G105, A105, B105, C106, D106, E106, F106, G106, A106, B106, C107, D107, E107, F107, G107, A107, B107, C108, D108, E108, F108, G108, A108, B108, C109, D109, E109, F109, G109, A109, B109, C110, D110, E110, F110, G110, A110, B110, C111, D111, E111, F111, G111, A111, B111, C112, D112, E112, F112, G112, A112, B112, C113, D113, E113, F113, G113, A113, B113, C114, D114, E114, F114, G114, A114, B114, C115, D115, E115, F115, G115, A115, B115, C116, D116, E116, F116, G116, A116, B116, C117, D117, E117, F117, G117, A117, B117, C118, D118, E118, F118, G118, A118, B118, C119, D119, E119, F119, G119, A119, B119, C120, D120, E120, F120, G120, A120, B120, C121, D121, E121, F121, G121, A121, B121, C122, D122, E122, F122, G122, A122, B122, C123, D123, E123, F123, G123, A123, B123, C124, D124, E124, F124, G124, A124, B124, C125, D125, E125, F125, G125, A125, B125, C126, D126, E126, F126, G126, A126, B126, C127, D127, E127, F127, G127, A127, B127, C128, D128, E128, F128, G128, A128, B128, C129, D129, E129, F129, G129, A129, B129, C130, D130, E130, F130, G130, A130, B130, C131, D131, E131, F131, G131, A131, B131, C132, D132, E132, F132, G132, A132, B132, C133, D133, E133, F133, G133, A133, B133, C134, D134, E134, F134, G134, A134, B134, C135, D135, E135, F135, G135, A135, B135, C136, D136, E136, F136, G136, A136, B136, C137, D137, E137, F137, G137, A137, B137, C138, D138, E138, F138, G138, A138, B138, C139, D139, E139, F139, G139, A139, B139, C140, D140, E140, F140, G140, A140, B140, C141, D141, E141, F141, G141, A141, B141, C142, D142, E142, F142, G142, A142, B142, C143, D143, E143, F143, G143, A143, B143, C144, D144, E144, F144, G144, A144, B144, C145, D145, E145, F145, G145, A145, B145, C146, D146, E146, F146, G146, A146, B146, C147, D147, E147, F147, G147, A147, B147, C148, D148, E148, F148, G148, A148, B148, C149, D149, E149, F149, G149, A149, B149, C150, D150, E150, F150, G150, A150, B150, C151, D151, E151, F151, G151, A151, B151, C152, D152, E152, F152, G152, A152, B152, C153, D153, E153, F153, G153, A153, B153, C154, D154, E154, F154, G154, A154, B154, C155, D155, E155, F155, G155, A155, B155, C156, D156, E156, F156, G156, A156, B156, C157, D157, E157, F157, G157, A157, B157, C158, D158, E158, F158, G158, A158, B158, C159, D159, E159, F159, G159, A159, B159, C160, D160, E160, F160, G160, A160, B160, C161, D161, E161, F161, G161, A161, B161, C162, D162, E162, F162, G162, A162, B162, C163, D163, E163, F163, G163, A163, B163, C164, D164, E164, F164, G164, A164, B164, C165, D165, E165, F165, G165, A165, B165, C166, D166, E166, F166, G166, A166, B166, C167, D167, E167, F167, G167, A167, B167, C168, D168, E168, F168, G168, A168, B168, C169, D169, E169, F169, G169, A169, B169, C170, D170, E170, F170, G170, A170, B170, C171, D171, E171, F171, G171, A171, B171, C172, D172, E172, F172, G172, A172, B172, C173, D173, E173, F173, G173, A173, B173, C174, D174, E174, F174, G174, A174, B174, C175, D175, E175, F175, G175, A175, B175, C176, D176, E176, F176, G176, A176, B176, C177, D177, E177, F177, G177, A177, B177, C178, D178, E178, F178, G178, A178, B178, C179, D179, E179, F179, G179, A179, B179, C180, D180, E180, F180, G180, A180, B180, C181, D181, E181, F181, G181, A181, B181, C182, D182, E182, F182, G182, A182, B182, C183, D183, E183, F183, G183, A183, B183, C184, D184, E184, F184, G184, A184, B184, C185, D185, E185, F185, G185, A185, B185, C186, D186, E186, F186, G186, A186, B186, C187, D187, E187, F187, G187, A187, B187, C188, D188, E188, F188, G188, A188, B188, C189, D189, E189, F189, G189, A189, B189, C190, D190, E190, F190, G190, A190, B190, C191, D191, E191, F191, G191, A191, B191, C192, D192, E192, F192, G192, A192, B192, C193, D193, E193, F193, G193, A193, B193, C194, D194, E194, F194, G194, A194, B194, C195, D195, E195, F195, G195, A195, B195, C196, D196, E196, F196, G196, A196, B196, C197, D197, E197, F197, G197, A197, B197, C198, D198, E198, F198, G198, A198, B198, C199, D199, E199, F199, G199, A199, B199, C200, D200, E200, F200, G200, A200, B200, C201, D201, E201, F201, G201, A201, B201, C202, D202, E202, F202, G202, A202, B202, C203, D203, E203, F203, G203, A203, B203, C204, D204, E204, F204, G204, A204, B204, C205, D205, E205, F205, G205, A205, B205, C206, D206, E206, F206, G206, A206, B206, C207, D207, E207, F207, G207, A207, B207, C208, D208, E208, F208, G208, A208, B208, C209, D209, E209, F209, G209, A209, B209, C210, D210, E210, F210, G210, A210, B210, C211, D211, E211, F211, G211, A211, B211, C212, D212, E212, F212, G212, A212, B212, C213, D213, E213, F213, G213, A213, B213, C214, D214, E214, F214, G214, A214, B214, C215, D215, E215, F215, G215, A215, B215, C216, D216, E216, F216, G216, A216, B216, C217, D217, E217, F217, G217, A217, B217, C218, D218, E218, F218, G218, A218, B218, C219, D219, E219, F219, G219, A219, B219, C220, D220, E220, F220, G220, A220, B220, C221, D221, E221, F221, G221, A221, B221, C222, D222, E222, F222, G222, A222, B222, C223, D223, E223, F223, G223, A223, B223, C224, D224, E224, F224, G224, A224, B224, C225, D225, E225, F225, G225, A225, B225, C226, D226, E226, F226, G226, A226, B226, C227, D227, E227, F227, G227, A227, B227, C228, D228, E228, F228, G228, A228, B228, C229, D229, E229, F229, G229, A229, B229, C230, D230, E230, F230, G230, A230, B230, C231, D231, E231, F231, G231, A231, B231, C232, D232, E232, F232, G232, A232, B232, C233, D233, E233, F233, G233, A233, B233, C234, D234, E234, F234, G234, A234, B234, C235, D235, E235, F235, G235, A235, B235, C236, D236, E236, F236, G236, A236, B236, C237, D237, E237, F237, G237, A237, B237, C238, D238, E238, F238, G238, A238, B238, C239, D239, E239, F239, G239, A239, B239, C240, D240, E240, F240, G240, A240, B240, C241, D241, E241, F241, G241, A241, B241, C242, D242, E242, F242, G242, A242, B242, C243, D243, E243, F243, G243, A243, B243, C244, D244, E244, F244, G244, A244, B244, C245, D245, E245, F245, G245, A245, B245, C246, D246, E246, F246, G246, A246, B246, C247, D247, E247, F247, G247, A247, B247, C248, D248, E248, F248, G248, A248, B248, C249, D249, E249, F249, G249, A249, B249, C250, D250, E250, F250, G250, A250, B250, C251, D251, E251, F251, G251, A251, B251, C252, D252, E252, F252, G252, A252, B252, C253, D253, E253, F253, G253, A253, B253, C254, D254, E254, F254, G254, A254, B254, C255, D255, E255, F255, G255, A255, B255, C256, D256, E256, F256, G256, A256, B256, C257, D257, E257, F257, G257, A257, B257, C258, D258, E258, F258, G258, A258, B258, C259, D259, E259, F259, G259, A259, B259, C260, D260, E260, F260, G260, A260, B260, C261, D261, E261, F261, G261, A261, B261, C262, D262, E262, F262, G262, A262, B262, C263, D263, E263, F263, G263, A263, B263, C264, D264, E264, F264, G264, A264, B264, C265, D265, E265, F265, G265, A265, B265, C266, D266, E266, F266, G266, A266, B266, C267, D267, E267, F267, G267, A267, B267, C268, D268, E268, F268, G268, A268, B268, C269, D269, E269, F269, G269, A269, B269, C270, D270, E270, F270, G270, A270, B270, C271, D271, E271, F271, G271, A271, B271, C272, D272, E272, F272, G272, A272, B272, C273, D273, E273, F273, G273, A273, B273, C274, D274, E274, F274, G274, A274, B274, C275, D275, E275, F275, G275, A275, B275, C276, D276, E276, F276, G276, A276, B276, C277, D277, E277, F277, G277, A277, B277, C278, D278, E278, F278, G278, A278, B278, C279, D279, E279, F279, G279, A279, B279, C280, D280, E280, F280, G280, A280, B280, C281, D281, E281, F281, G281, A281, B281, C282, D282, E282, F282, G282, A282, B282, C283, D283, E283, F283, G283, A283, B283, C284, D284, E284, F284, G284, A284, B284, C285, D285, E285, F285, G285, A285, B285, C286, D286, E286, F286, G286, A286, B286, C287, D287, E287, F287, G287, A287, B287, C288, D288, E288, F288, G288, A288, B288, C289, D289, E289, F289, G289, A289, B289, C290, D290, E290, F290, G290, A290, B290, C291, D291, E291, F291, G291, A291, B291, C292, D292, E292, F292, G292, A292, B292, C293, D293, E293, F293, G293, A293, B293, C294, D294, E294, F294, G294, A294, B294, C295, D295, E295, F295, G295, A295, B295, C296, D296, E296, F296, G296, A296, B296, C297, D297, E297, F297, G297, A297, B297, C298, D298, E298, F298, G298, A298, B298, C299, D299, E299, F299, G299, A299, B299, C300, D300, E300, F300, G300, A300, B300, C301, D301, E301, F301, G301, A301, B301, C302, D302, E302, F302, G302, A302, B302, C303, D303, E303, F303, G303, A303, B303, C304, D304, E304, F304, G304, A304, B304, C305, D305, E305, F305, G305, A305, B305, C306, D306, E306, F306, G306, A306, B306, C307, D307, E307, F307, G307, A307, B307, C308, D308, E308, F308, G308, A308, B308, C309, D309, E309, F309, G309, A309, B309, C310, D310, E310, F310, G310, A310, B310, C311, D311, E311, F311, G311, A311, B311, C312, D312, E312, F312, G312, A312, B312, C313, D313, E313, F313, G313, A313, B313, C314, D314, E314, F314, G314, A314, B314, C315, D315, E315, F315, G315, A315, B315, C316, D316, E316, F316, G316, A316, B316, C317, D317, E317, F317, G317, A317, B317, C318, D318, E318, F318, G318, A318, B318, C319, D319, E319, F319, G319, A319, B319, C320, D320, E320, F320, G320, A320, B320, C321, D321, E321, F321, G321, A321, B321, C322, D322, E322, F322, G322, A322, B322, C323, D323, E323, F323, G323, A323, B323, C324, D324, E324, F324, G324, A324, B324, C325, D325, E325, F325, G325, A325, B325, C326, D326, E326, F326, G326, A326, B326, C327, D327, E327, F327, G327, A327, B327, C328, D328, E328, F328, G328, A328, B328, C329, D329, E329, F329, G329, A329, B329, C330, D330, E330, F330, G330, A330, B330, C331, D331, E331, F331, G331, A331, B331, C332, D332, E332, F332, G332, A332, B332, C333, D333, E333, F333, G333, A333, B333, C334, D334, E334, F334, G334, A334, B334, C335, D335, E335, F335, G335, A335, B335, C336, D336, E336, F336, G336, A336, B336, C337, D337, E337, F337, G337, A337, B337, C338, D338, E338, F338, G338, A338, B338, C339, D339, E339, F339, G339, A339, B339, C340, D340, E340, F340, G340, A340, B340, C341, D341, E341, F341, G341, A341, B341, C342, D342, E342, F342, G342, A342, B342, C343, D343, E343, F343, G343, A343, B343, C344, D344, E344, F344, G344, A344, B344, C345, D345, E345, F345, G345, A345, B345, C346, D346, E346, F346, G346, A346, B346, C347, D347, E347, F347, G347, A347, B347, C348, D348, E348, F348, G348, A348, B348, C349, D349, E349, F349, G349, A349, B349, C350, D350, E350, F350, G350, A350, B350, C351, D351, E351, F351, G351, A351, B351, C352, D352, E352, F352, G352, A352, B352, C353, D353, E353, F353, G353, A353, B353, C354, D354, E354, F354, G354, A354, B354, C355, D355, E355, F355, G355, A355, B355, C356, D356, E356, F356, G356, A356, B356, C357, D357, E357, F357, G357, A357, B357, C358, D358, E358, F358, G358, A358, B358, C359, D359, E359, F359, G359, A359, B359, C360, D360, E360, F360, G360, A360, B360, C361, D361, E361, F361, G361, A361, B361, C362, D362, E362, F362, G362, A362, B362, C363, D363, E363, F363, G363, A363, B363, C364, D364, E364, F364, G364, A364, B364, C365, D365, E365, F365, G365, A365, B365, C366, D366, E366, F366, G366, A366, B366, C367, D367, E367, F367, G367, A367, B367, C368, D368, E368, F368, G368, A368, B368, C369, D369, E369, F369, G369, A369, B369, C370, D370, E370, F370, G370, A370, B370, C371, D37

114

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 114 through 117. Synth. 1 (top staff) has a treble clef and contains a melodic line with a slur over measures 114-115, followed by a whole note chord in measure 116 and another whole note chord in measure 117. Synth. 2 (middle staff) has a grand staff (treble and bass clefs) and contains a rhythmic accompaniment of eighth notes. Synth. 3 (bottom staff) has a grand staff and contains a bass line with a whole note chord in measure 114, a half note in measure 115, and whole notes in measures 116 and 117.

118

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 118 through 121. Synth. 1 (top staff) has a treble clef and contains a melodic line with a slur over measures 118-119, followed by a whole note chord in measure 120 and a whole note chord in measure 121. Synth. 2 (middle staff) has a grand staff and contains a rhythmic accompaniment of eighth notes. Synth. 3 (bottom staff) has a grand staff and contains a bass line with a whole note chord in measure 118, a half note in measure 119, and whole notes in measures 120 and 121.

122

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 122 through 125. Synth. 1 has a treble clef staff with a key signature of two flats (Bb, Eb) and a common time signature. It features a series of chords: a Bb major triad, an Eb major triad, a Bb major triad with a fermata, an Eb major triad, and an Eb major triad with a fermata. The bass staff of Synth. 1 is mostly empty, with a few notes in the final two measures. Synth. 2 consists of two staves (treble and bass) with a rhythmic pattern of eighth notes. The treble staff has a key signature of one flat (Bb) and a common time signature. The bass staff has a key signature of one flat (Bb) and a common time signature. Synth. 3 consists of two staves (treble and bass) with a single note in the bass staff of each measure: Bb in measure 122, Eb in measure 123, Bb in measure 124, and Eb in measure 125.

126

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 126 through 129. Synth. 1 has a treble clef staff with a key signature of one flat (Bb) and a common time signature. It features a series of chords: a Bb major triad, an Eb major triad, a Bb major triad with a fermata, and an Eb major triad with a fermata. The bass staff of Synth. 1 has a single note in the first measure (Bb), a single note in the second measure (Eb), and a single note in the fourth measure (Eb). Synth. 2 consists of two staves (treble and bass) with a rhythmic pattern of eighth notes. The treble staff has a key signature of one flat (Bb) and a common time signature. The bass staff has a key signature of one flat (Bb) and a common time signature. Synth. 3 consists of two staves (treble and bass) with a single note in the bass staff of each measure: Bb in measure 126, Eb in measure 127, Bb in measure 128, and Eb in measure 129.

130

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 130 to 133. Synth. 1 (top) features a melodic line starting with a quarter note G4, followed by a half note F#4, and a long slur over a half note E4. Synth. 2 (middle) consists of two staves with a rhythmic accompaniment of eighth notes. Synth. 3 (bottom) has a bass line with a long slur over a half note G2.

134

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 134 to 137. Synth. 1 (top) features a melodic line with a long slur over a half note G4. Synth. 2 (middle) consists of two staves with a rhythmic accompaniment of eighth notes. Synth. 3 (bottom) has a bass line with a long slur over a half note G2.

146

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 146 to 149. Synth. 1 (top) has a treble clef and a flat key signature. It features a melodic line starting with a half note G4, followed by quarter notes A4, B4, and C5, all under a slur. Measures 147 and 148 contain whole notes G4 and A4 respectively. Measure 149 has a whole note G4 with a fermata. Synth. 2 (middle) has a grand staff with treble and bass clefs. It plays a rhythmic pattern of eighth notes. Synth. 3 (bottom) has a grand staff with treble and bass clefs. It plays a simple bass line with half notes G3, F3, E3, and D3, all under a slur.

150

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 150 to 153. Synth. 1 (top) has a treble clef and a flat key signature. It features a melodic line starting with a half note G4, followed by quarter notes A4, B4, and C5, all under a slur. Measures 151 and 152 contain whole notes G4 and A4 respectively. Measure 153 has a whole note G4 with a fermata. Synth. 2 (middle) has a grand staff with treble and bass clefs. It plays a rhythmic pattern of eighth notes. Synth. 3 (bottom) has a grand staff with treble and bass clefs. It plays a simple bass line with half notes G3, F3, E3, and D3, all under a slur.

154

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 154 through 157. Synth. 1 has a treble clef and a long slur over four notes: a half note G4, a quarter note A4, a quarter note B4, and a half note C5. Synth. 2 has a treble clef and plays a rhythmic eighth-note pattern. Synth. 3 has a bass clef and plays a long slur over four notes: a half note G3, a quarter note F3, a quarter note E3, and a half note D3.

158

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 158 through 161. Synth. 1 has a treble clef and a long slur over four notes: a half note G4, a quarter note A4, a quarter note B4, and a half note C5. Synth. 2 has a treble clef and plays a rhythmic eighth-note pattern. Synth. 3 has a bass clef and plays a long slur over four notes: a half note G3, a quarter note F3, a quarter note E3, and a half note D3.

162

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 162 to 165. Synth. 1 (top) features a melodic line starting with a half note G4, followed by quarter notes A4, B4, and C5, all under a slur. Synth. 2 (middle) provides a rhythmic accompaniment with eighth notes, including a chromatic descending line in the second half. Synth. 3 (bottom) has a bass line with a half note G2, followed by quarter notes F2, E2, and D2, also under a slur.

166

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 166 to 169. Synth. 1 (top) features a melodic line with a half note G4, followed by quarter notes F4, E4, and D4, all under a slur. Synth. 2 (middle) continues the rhythmic accompaniment with eighth notes, including a chromatic ascending line in the second half. Synth. 3 (bottom) has a bass line with a half note G2, followed by quarter notes F2, E2, and D2, also under a slur.

170

Synth. 1

Synth. 2

Synth. 3

174

Synth. 1

Synth. 2

Synth. 3

178

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 178 to 181. Synth. 1 (top) features a melodic line starting with a slur over measures 178-180, with notes G4, A4, B4, C5, B4, A4, G4. Synth. 2 (middle) provides a rhythmic accompaniment with eighth notes in both staves. Synth. 3 (bottom) has a bass line with a slur over measures 178-180, with notes G3, A3, B3, C4, B3, A3, G3. Measure 181 shows a change in the Synth. 1 line.

182

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system covers measures 182 to 185. Synth. 1 (top) has a complex melodic line with many beamed notes and accidentals. Synth. 2 (middle) continues with a rhythmic accompaniment. Synth. 3 (bottom) has a bass line with a slur over measures 182-184, with notes G3, A3, B3, C4, B3, A3, G3. Measure 185 shows a change in the Synth. 3 line.

186 23

Synth. 1

Synth. 2

Synth. 3

This system contains measures 186 through 189. Synth. 1 and Synth. 2 play complex, multi-voice textures with frequent chromaticism and accidentals. Synth. 3 is mostly silent, with a few notes in the bass clef in measures 187 and 188.

190

Synth. 1

Synth. 2

Synth. 3

This system contains measures 190 through 193. Synth. 1 and Synth. 2 continue with dense, chromatic textures. Synth. 3 has a more active role, with a melodic line in the bass clef and some notes in the treble clef in measure 193.

194

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 194 through 197. Synth. 1 starts with a treble clef and a key signature of one flat (Bb). It features a rhythmic pattern of eighth notes in the right hand and a bass line in the left hand. Synth. 2 has a treble clef and a key signature of one flat. It plays a more complex melodic line with eighth notes and some accidentals. Synth. 3 has a bass clef and a key signature of one sharp (F#). It provides a simple bass line with quarter notes and rests.

198

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 198 through 201. Synth. 1 has a treble clef and a key signature of one flat. It plays a simple melodic line with quarter notes. Synth. 2 has a treble clef and a key signature of one flat. It continues with a rhythmic eighth-note pattern. Synth. 3 has a bass clef and a key signature of one sharp. It continues with a simple bass line.

202

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 202 through 205. Synth. 1 is a single melodic line with notes and accidentals. Synth. 2 consists of two staves with dense chordal textures. Synth. 3 has a sparse bass line with a long note in the final measure.

206

Synth. 1

Synth. 2

Synth. 3

Detailed description: This system contains measures 206 through 209. Synth. 1 has a melodic line with some rests. Synth. 2 has dense chordal textures. Synth. 3 has a rhythmic bass line. A double bar line is present at the end of measure 209.