

2017 revision for string quartet
with digital signal processing

commissioned by Westdeutscher Rundfunk
for the Arditti and JACK Quartets

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Undone

1
emphatic and emotional

$\text{♩} = 96$

mf *ff* *mp* *ff*

nv *mv* (ord.)

5 5 5 7:2 7:2

Violin I

Violin II

Viola

Cello

DSP

2

3

6

Vln. I

Vln. II

Vla.

Vc.

DSP

pp *mf* *pp* *f* *pp* *f*

pp *ff* *n* *ff* *n* *f*

f *n*

mf

pp *mf* *pp* *f*

f *mf*

f *mf*

3 *3* *3* *5* *3* *5*

nv *mv* *(ord.)*

Violin I: Starts with a sixteenth-note run, followed by a melodic line with a triplet. Dynamics range from *pp* to *ff*. Includes markings *nv*, *mv*, and *(ord.)*. A boxed '2' is above the first measure, and a boxed '3' is above the final measure.

Violin II: Features a sixteenth-note run, then a melodic line with a triplet. Dynamics range from *pp* to *f*.

Viola: Remains silent until the final measure, where it plays a melodic phrase with a quintuplet. Dynamics range from *f* to *n*.

Violoncello: Remains silent until the final measure, where it plays a melodic phrase with a quintuplet. Dynamics range from *mf*.

Double Bass: Features a sixteenth-note run, then a melodic line with a quintuplet. Dynamics range from *pp* to *f*.

9

Vln. I

Vln. II

Vla.

Vc.

DSP

4

n *ff* *mf* *ff*

f

n *f* *n* *f* *n* *f*

n *f*

7:2

5

6

14

Vln. I

Vln. II

Vla.

Vc.

DSP

mf

pp

ff

mf

pp

f

mf

pp

f

mf

f

harmonizing v2, vla, and vc

7

19

Vln. I

mf

ff

7:2

5

5

5

5

6

f

Vln. II

n

f

f

f

f

f

Vla.

f

n

Vc.

f

DSP

multi-tap delay on v2

f

f

n

Detailed description: This is a page of a musical score, page 5. It features six staves. The top staff is for Violin I (Vln. I), starting at measure 19. It contains a complex melodic line with slurs and dynamic markings *mf* and *ff*. A box labeled '7' points to the first measure. The second staff is for Violin II (Vln. II), with dynamics *n* and *f*. The third staff is for Viola (Vla.), with dynamics *f* and *n*. The fourth staff is for Violoncello (Vc.), with dynamic *f*. The fifth staff is for DSP, with a box labeled 'multi-tap delay on v2' pointing to a specific section. The sixth staff is unlabeled but contains dynamics *f* and *n*. The score includes various musical notations such as slurs, ties, and dynamic hairpins. A 7:2 ratio is noted above a section in the Vln. I staff. Boxed numbers 7, 8, and 9 are placed above the staves to mark specific measures.

23

Vln. I

Vln. II

Vla.

Vc.

DSP

10

11

12

mf *ff* *n* *ff* *f* *mf*

lower the pitch on III 7 or 8 cents less than the open string to create beating

multi-tap delay on v2

28

13

14

15

Vln. I

Vln. II

Vla.

Vc.

DSP

f

ff

mv

(ord.) *f*

7:2

ff

n *mf*

(ord.) *n* *mf*

n *mf*

(ord.) *n* *mf*

f

p *mf*

n *mf*

n *mf*

n *mf*

f

f

f

f

f

16

17

18

32

Vln. I

Vln. II

Vla.

Vc.

DSP

f

pp

ff

f

f

f

continue playing same pitch on IV only

(standard tempered pitch)

harmonizing on v2

19 20 21

36

Vln. I

Vln. II

Vla.

Vc.

DSP

harmonizing on v2, vla, and vc

p *fff* *ff* *f* *n* *mf* *p* *f* *pp* *f* *pp* *mf* *mf*

This musical score page features five staves: Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and DSP. The music is in 3/4 time. Measures 22, 23, and 24 are highlighted with boxed numbers and vertical lines. The Violin I part includes dynamics such as *ff*, *f*, *mp*, and *ff*, along with fingering numbers (5, 3, 5, 5, 5, 5, 7) and accents. The Violin II part has dynamics *pp* and *mf*. The Viola part also has dynamics *pp* and *mf*. The Violoncello part features long, sustained notes with a decrescendo hairpin. The DSP part has a dynamic of *mf*. The score concludes with a 3/4 time signature.

25

26

27

The score consists of five staves: Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and DSP. The key signature is one flat (Bb) and the time signature is 4/4. The score is divided into measures 46, 47, 48, 49, and 50. Measure numbers 25, 26, and 27 are indicated by boxes above the first three measures.

Violin I (Vln. I): Measures 46-48 feature a melodic line with dynamics *sub p*, *f*, *pp*, and *f*. Measures 49-50 continue with *pp* and *f*. A *5* (quint) marking is present in measure 46.

Violin II (Vln. II): Measures 46-48 are mostly rests, with dynamics *pp* and *mf* indicated for the first half of measure 49 and the second half of measure 50.

Viola (Vla.): Measures 46-48 are mostly rests. In measure 49, there is a melodic line with dynamics *pp* and *mf*. A *sul pont.* instruction is placed above measure 49.

Violoncello (Vc.): Measures 46-48 are mostly rests. In measure 49, there is a melodic line with dynamics *pp* and *f*. In measure 50, there is a pizzicato (*pizz.*) chord with dynamics *mf*.

DSP: Measures 46-48 are mostly rests. In measure 49, there is a chordal line with dynamics *pp* and *mf*. In measure 50, there is a chordal line with dynamics *pp* and *mf*. A *sul pont.* instruction is placed above measure 50, and a *pizz.* instruction is placed above measure 50.

28 29 30 31

52

Vln. I

Vln. II

Vla.

Vc.

DSP

p *ff* *mf* *f* *mf* *f*

n *ff* *n* *mf*

ord. *n* *ff* *ord.* *n* *mf*

f *f*

n *mf* *n* *mf*

f

32 33

56

Vln. I

Vln. II

Vla.

Vc.

DSP

sul pont.

ord.

mf *f* *ff* *mf* *ff* *mp* *ff*

n *mf* *n* *mf* *n* *mf* *pp* *ff*

59

34 **35** **36** **37**

Vln. I
mf *ff* *f* *p* *ff*

Vln. II
n *mf* *f*

Vla.
n *mf* *n* *f*

Vc.
f

DSP
f *f*

Detailed description of the musical score: The score is for measures 34-37 of a piece. It features five staves: Vln. I, Vln. II, Vla., Vc., and DSP. Measure numbers 34, 35, 36, and 37 are boxed at the top. Measure 59 is also marked. Vln. I has a complex melodic line with slurs, accents, and dynamic markings *mf*, *ff*, *f*, *p*, and *ff*. Vln. II has a more rhythmic accompaniment with dynamics *n*, *mf*, and *f*. Vla. has a similar accompaniment with dynamics *n*, *mf*, *n*, and *f*. Vc. has a single note at the start of measure 34 with dynamic *f*. DSP has a rhythmic accompaniment with dynamics *f* and *f*. The score includes various musical notations such as slurs, accents, and dynamic markings.

63

Vln. I

Vln. II

Vla.

Vc.

DSP

harmonizing on v2, vla, and vc

38

39

mf, *f*, *pp*, *mf*, *ff*

mf, *pp*, *mf*, *pp*, *mf*, *pp*, *mf*, *pp*, *mf*

musical notation including notes, rests, and dynamic markings

40

41

42

70

Vln. I

Vln. II

Vla.

Vc.

DSP

(harmonizing continues)

f

ad lib. ♩ = 100 ~ 110

pp < *ff*

p < *ff*

pp < *ff*

p < *ff*

mf < *ff*

ad lib. ♩ = 100 ~ 110

pizz. *arco* *pizz.* *arco*

p < *f*

pp < *f* > *pp* *f*

ad lib. ♩ = 100 ~ 110

pizz. *arco* *pizz.* *arco*

pp < *f* > *pp* *f*

ad lib. ♩ = 100 ~ 110

pizz. *arco* *pizz.* *arco*

f *p* < *f*

pp < *f* > *pp*

v2 repeated with .6" and .9" delay
 vla repeated with .75" delay
 vc repeated with 1.05" delay

74

43

44

45

Vln. I

Vln. II

Vla.

Vc.

DSP

The image shows a page of a musical score for measures 74, 75, and 76. The score is arranged in five systems, each with a different instrument part: Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and DSP. Measure numbers 43, 44, and 45 are indicated by boxes at the top of the page, with lines pointing to specific notes in the Vln. I part. The Vln. I part features a melodic line with accents and fingerings (5). Dynamics range from *f* to *ff*. The Vln. II part plays a similar melodic line. The Vla. part has a lower register line with accents and fingerings (5). The Vc. part has a single note in measure 74 with an accent and *ff* dynamic. The DSP part has a complex melodic line with accents and fingerings (5). The score is in 3/4 time and includes a key signature change to one sharp (F#) in measure 75.

46

47

48

49

77

Vln. I

Vln. II

Vla.

Vc.

DSP

$\text{♩} = 50$
esp.

The musical score is arranged in five systems. The first system (measures 77-81) features Vln. I and Vln. II. Vln. I starts with a forte (*f*) dynamic and sixteenth-note passages, marked with a box '46' above measure 78. In measure 79, the dynamic changes to fortissimo (*ff*), marked with a box '47' above. Measure 80 contains a triplet of sixteenth notes, marked with a box '48' above. Measure 81 is marked with a box '49' above and features a dynamic change from pianissimo (*pp*) to forte (*f*). The second system (measures 82-86) features Vln. II, Vla., and Vc. Vln. II dynamics are *n*, *mf*, *ff* (measures 82-84), *n*, *p*, *ff* (measures 85-86), and *n*, *mf* (measures 87-88). Vla. dynamics are *n*, *p*, *ff* (measures 85-86) and *n* (measures 87-88). Vc. dynamics are *ff*, *n*, *mf*, *p* (measures 87-88) and *ff*, *n* (measures 89-90). The third system (measures 89-93) features DSP. DSP dynamics are *n*, *mf*, *ff* (measures 89-91), *n*, *ff* (measures 92-93), and *n* (measures 94-95). The fourth system (measures 94-98) features DSP. DSP dynamics are *n*, *ff* (measures 94-96) and *n* (measures 97-98). The fifth system (measures 99-103) features DSP. DSP dynamics are *n*, *p*, *ff* (measures 99-101) and *n* (measures 102-103). Performance instructions include *arco* for Vc. in measure 87 and *esp.* for Vln. I in measure 80. A tempo marking of $\text{♩} = 50$ is present at the top right.

82

50 51 52 53

Vln. I

Vln. II

Vla.

Vc.

DSP

$\text{♩} = 100$

n *p* *f* *mp* *f* *p* *f* *mp* *f* *mf* *ff*

p *n* *mf* *p* *n* *f*

mf *p* *n* *f*

mf *p* *n* *f*

mf *p* *n* *f*

mf *p* *n* *f*

n *mf* *p* *n* *p* *n* *f*

n *mf* *n* *f*

(slight gliss. from Eb -31 cents to tempered Eb)

Detailed description of the musical score: The score is for measures 82-85. It features five staves: Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and DSP. The key signature has one flat (Bb), and the time signature changes from 3/4 to 5/4. Measure 82 starts with a tempo marking of quarter note = 100. Measure 50 is marked with a box and points to the first measure. Measure 51 is marked with a box and points to the second measure. Measure 52 is marked with a box and points to the third measure. Measure 53 is marked with a box and points to the fourth measure. Dynamic markings include *n* (pizzicato), *p* (piano), *f* (forte), *mp* (mezzo-piano), *mf* (mezzo-forte), and *ff* (fortissimo). Performance instructions include a glissando in the Viola part: "(slight gliss. from Eb -31 cents to tempered Eb)".

54

90

Vln. I

Vln. II

Vla.

Vc.

DSP

f *esp.* *mf* *ff*

sul pont. *(ord.)* *sul pont.*

n *f* *n* *mf* *n* *mf* *n* *mf*

n *mf* *n* *mp* *n* *mp* *n* *mp*

mf *mp* *n* *mf* *n* *mp* *mf* *p* *mf* *mp*

n *mf* *n* *mp* *n* *mp* *n* *mp*

n *mf* *n* *mp* *n* *mp*

vc repeated with 1.25 second delay

mf

55

♩ = 100

93

Vln. I

Vln. II

Vla.

Vc.

DSP

(vc delay continues)

The musical score consists of five staves. The top staff is for Violin I (Vln. I), the second for Violin II (Vln. II), the third for Viola (Vla.), the fourth for Violoncello (Vc.), and the fifth for DSP. The key signature has one sharp (F#) and the time signature is 4/4. The tempo is marked as quarter note = 100. Measure 93 starts with a treble clef and a key signature of one sharp. The Vln. I part features a melodic line with triplets and quintuplets. The Vln. II part has a similar melodic line with dynamic markings *n*, *mf*, *n*, *f*, *n*, *mf*, and *ord.* The Vla. part has a lower melodic line with dynamic markings *mf*, *n*, and *mp*. The Vc. part has a bass line with dynamic markings *n*, *mf*, *n*, *mp*, *mf*, *p*, and *mf*. The DSP part has a bass line with dynamic markings *n*, *mp*, *pp*, and *mf*. The Vc. part has a note with a delay line and the instruction "(vc delay continues)".

56

57

97

Vln. I

Vln. II

Vla.

Vc.

DSP

f

pp

n

pizz.

f

pp

n

f

pp

n

f

pp

n

f

pp

n

101

Vln. I

Vln. II

Vla.

Vc.

DSP

58

59

60

61

62

pp *f* *n* *f* *p*

mf *n* *mf* *n* *mf*

pizz. *arco sul pont.* *pizz.* *pizz.* *f* *f*

mf *n* *mf* *n* *mf* *pp*

pizz. *f* *arco sul pont.* *n* *mf* *pizz.* *f*

pizz. *f* *arco sul pont.* *n* *mf* *pizz.* *f*

vc repeated with 1.05 second delay

63

64

107

Vln. I *f* *pp* *f*

Vln. II *pp* *mf* *pp* *mf*

Vla. *mf*

Vc. *mf* *p* *mf* *arco sul pont.*

DSP *mf* *pp* *mf* *pp* *mf*

Via repeated with 1.325 second delay

(vc delay continues)

arco sul pont. *pp*

111

65 66 67 68

Vln. I

Vln. II

Vla.

Vc.

DSP

pp *5* *5* *5* *5* *ff*

sul pont. *pp* *mf* *ord.* *n* *f*

arco sul pont. *pp* *mf* *ord.* *n* *f*

n *f*

arco sul pont. *pp* *mf* *ord.* *n* *f*

f

ord. *n* *f*

ord. *n* *f*

ord. *n* *f*

mf *f*

The image shows a musical score for measures 65 to 68. It consists of five staves: Vln. I, Vln. II, Vla., Vc., and DSP. Measure 65 is marked with a boxed '65'. Measure 66 is marked with a boxed '66'. Measure 67 is marked with a boxed '67'. Measure 68 is marked with a boxed '68'. The Vln. I staff starts with a treble clef and a key signature of one sharp (F#). It features a series of sixteenth notes with a '5' fingering, starting at *pp* and ending at *ff*. The Vln. II staff starts with a treble clef and a key signature of one sharp. It begins with a rest, then a half note on F#4, marked *sul pont.* and *pp*, which then transitions into a series of eighth notes marked *mf*. The Vla. staff starts with an alto clef and a key signature of one flat (Bb). It begins with a rest, then a half note on Bb3, marked *arco sul pont.* and *pp*, which then transitions into a series of eighth notes marked *mf*. The Vc. staff starts with a bass clef and a key signature of one flat. It begins with a rest, then a half note on Bb2, marked *n*. The DSP staff consists of five staves (treble, alto, bass, alto, bass clefs). It begins with a rest, then a half note on F#4, marked *arco sul pont.* and *pp*, which then transitions into a series of eighth notes marked *mf*. Measure 66 features a treble clef and a key signature of one sharp. It starts with a rest, then a series of eighth notes marked *mf*. Measure 67 features a treble clef and a key signature of one flat. It starts with a rest, then a series of eighth notes marked *f*. Measure 68 features a treble clef and a key signature of one flat. It starts with a rest, then a series of eighth notes marked *f*. Dynamics include *pp*, *ff*, *sul pont.*, *mf*, *n*, *f*, *ord.*, and *fz*. Performance instructions include *sul pont.* and *arco sul pont.*.

115

ad lib. ♩ = 90 ~ 100 *ord.* *8va*-----

Vln. I *sul pont.* 3-5ⁿ *loco* *loco* *loco* *loco* *5* *5* *8va*----- *loco* *5* *5* *8va*-----

n *pp* < *ff* *pp* < *ff* *pp* < *ff* *sfzp* < *ff* *pp* < *ff* *pp* < *ff* *pp* < *ff* *pp* < *f*

ad lib. ♩ = 100 ~ 110

Vln. II *pizz.* *arco* *pizz.* *arco* *pp* < *f* *pp* *f* *pp* < *f* > *n* *p* < *f* > *p* < *f* > *p* *f* *p* < *f* > *n*

ad lib. ♩ = 100 ~ 110 *(ord.)* *pizz.* *arco* *pizz.* *arco* *pp* < *f* > *pp* *f* *p* < *f* *f* *p* < *f* > *p* < *f* > *p* < *f* > *p* < *f* > *p* < *f* > *p* *f*

ad lib. ♩ = 100 ~ 110 *pizz.* *arco* *pizz.* *arco* *(ord.)* *f* *p* < *f* > *pp* < *f* > *pp*

Vc.

DSP

v2 repeated with 1.5" delay

v2 repeated with 2.3" delay

vla repeated with 1.7" delay

vc repeated with 1.9" delay

69

70

71

72

73

♩ = 100
loco

117

Vln. I

Vln. II

Vla.

Vc.

DSP

The musical score consists of five staves. The top staff is for Violin I (Vln. I), starting at measure 117. It features a melodic line with dynamic markings *p* and *f* in measures 69-70, and *mf* and *ff* in measures 72-73. The second staff is for Violin II (Vln. II), playing a sustained accompaniment with dynamics *n*, *mf*, and *p*. The third staff is for Viola (Vla.), also with dynamics *n*, *mf*, and *p*. The fourth staff is for Violoncello (Vc.), with dynamics *n*, *mf*, and *p*. The fifth staff is for DSP, which includes four sub-staves with dynamics *n*, *mf*, and *p*. The score includes various musical notations such as slurs, accents, and articulation marks.

123

Vln. I

Vln. II

Vla.

Vc.

DSP

74

75

76

77

f

mf *ff*

p *f*

mf

pp *mf*

mf

pp *mf*

harmonizing on v2, vla, and vc

Detailed description: This is a page of a musical score, page 28, featuring four staves for Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), and Violoncello (Vc.), plus a DSP (Digital Signal Processing) section at the bottom. The Vln. I staff starts at measure 123 and contains several measures of music, with measures 74, 75, 76, and 77 highlighted in boxes. The Vln. II, Vla., and Vc. staves have corresponding musical notation, often with slurs and dynamic markings. The DSP section is divided into two staves and contains a box with the text 'harmonizing on v2, vla, and vc'. The score includes various musical notations such as notes, rests, slurs, and dynamic markings like *f*, *mf*, *ff*, *p*, and *pp*. Measure numbers 116, 117, 118, 119, and 120 are also visible in the lower staves.

78

79

131

Vln. I

Vln. II

Vla.

Vc.

(harmonizing continues)

DSP

The musical score consists of six staves. The first three staves are for Violin I, Violin II, and Viola. The fourth staff is for Violoncello. The fifth and sixth staves are for DSP. The score begins at measure 131. The first two measures are marked with boxes containing the numbers 78 and 79. The key signature is one flat (B-flat). The time signature changes from 3/4 to 2/4 to 4/4. Dynamics include *ff*, *f*, and *p*. There are accents and fingering (5) markings throughout. The DSP part includes a section labeled "(harmonizing continues)".

136

Vln. I

Vln. II

Vla.

Vc.

DSP

8^{va}

pp *mf*

p

pp

p

pp

140 $\text{♩} = 48$ (8^{va})

81 **82** **83** **84** **85**

Vln. I *p* *pp* *mf* *p*

Vln. II *n* *mf* *p*

Vla. *n* *mf* *p* (slight gliss. from D -31 cents to tempered Db) *pp* *mf* *p*

Vc. *n* *mf* *p*

DSP *n* *mf* *p* *n* *mf* *p* *n* *mf*

Detailed description of the musical score: The score is for measures 81-85, which correspond to measures 140-144 of the piece. The tempo is marked as quarter note = 48. The key signature has one sharp (F#). The time signature is 4/4. The score includes staves for Violin I, Violin II, Viola, Violoncello, and DSP. Violin I has a melodic line with slurs and dynamics p, pp, mf, and p. Violin II has a similar melodic line with dynamics n, mf, and p. Viola has a melodic line with dynamics n, mf, p, a glissando instruction, and dynamics pp, mf, p. Violoncello has a melodic line with dynamics n, mf, p. DSP has two staves with chords and dynamics n, mf, p. Measure numbers 81-85 are boxed above the staves.

This musical score page contains five systems of staves. The first system is for Violin I (Vln. I), starting at measure 145. It features a melodic line with dynamic markings of *mf*, *n*, *mf*, *pp*, *mf*, *n*, *mf*, *pp*, and *mf*. Above the staff, measures 86, 87, 88 (with a fermata), 89, and 90 are boxed and numbered. A dashed line labeled *(8va)* spans the first two measures, and the word *loco* is written above the staff in the second measure. The second system is for Violin II (Vln. II), with dynamics *n* and *mf*. The third system is for Viola (Vla.), with a dynamic *n*. The fourth system is for Violoncello (Vc.), with dynamics *n*, *mf*, and *p*. The fifth system is for DSP, consisting of three staves with dynamics *p*, *n*, *mf*, and *p*. The score includes various musical notations such as slurs, ties, and dynamic hairpins.

152

Vln. I

Vln. II

Vla.

Vc.

DSP

91 92 93 94 95 96 97 98

The musical score consists of five staves: Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and Double Bass (DSP). The music is in 4/4 time. At measure 152, the key signature changes from C major to D minor. The score is marked with dynamics: *p* (piano), *n* (mezzo-forte), and *pp* (pianissimo). Measures 91-98 are highlighted with boxes and vertical lines. The Violin I part features a melodic line with a crescendo leading to *p*. The Violin II part features a melodic line with a crescendo leading to *p*. The Viola part features a melodic line with a crescendo leading to *p*. The Violoncello part features a melodic line with a crescendo leading to *p*, followed by a decrescendo leading to *pp*. The Double Bass part features a melodic line with a crescendo leading to *p*, followed by a decrescendo leading to *pp*.

99

100

101

102

103

♩ = 100

158

Vln. I

Vln. II

Vla.

Vc.

DSP

f

n

f

n

mf

n

f

n

f

n

mf

mf

pizz.

arco

pizz.

arco

sul pont.

(ord.)

pizz.

arco

mf

pp

mf

pp

mf

p

mf

mf

pizz.

arco

pizz.

arco

p

mf

n

f

n

f

n

f

n

f

ppp

f

n

mf

n

mf

n

mf

vla/vc repeated with 1.7/.9 second delay

104

165

Vln. I

Vln. II

Vla.

Vc.

DSP

(via/vc delay continues)

The score consists of five staves. The Violin I staff begins at measure 165 with a dynamic of *n* (pizzicato) and *mf* (mezzo-forte). It includes a *p < f* (piano to forte) dynamic change and a *p* (piano) dynamic. The Violin II staff follows with *n* and *mf* dynamics, and a *pp* (pianissimo) to *mf* dynamic change. The Viola staff features *pp* and *mf* dynamics, with *pizz.* (pizzicato) and *arco* (arco) markings. The Violoncello staff also uses *pp* and *mf* dynamics, with *pizz.* and *arco* markings. The DSP staff mirrors the Violin I and II dynamics. The bottom two staves are empty, with the text "(via/vc delay continues)" written in the first staff.

105 106 107 108

Vln. I
171 *ord.* 3 5 3 *p* *f* *p* *ff* *ord.* 3 3 *p* *f*

Vln. II
n *mf* *n* *mf* *pp* *f*

Vla.
pp *mf* *pp* *mf* *pizz.* *p* *mf* *arco* *pp* *mf* *pizz.* 3 *pp f*

Vc.
pizz. *arco* *pizz.* *arco* *pp* *mf* *pp* *mf* 5 3 3

DSP
n *mf* *n* *mf* *p* *f*

(via/vc delay continues)

Detailed description of the musical score: The score is for measures 105 through 108. It features five staves: Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and DSP. Measure 105 starts at measure 171. Vln. I has a triplet of eighth notes (ord. 3), a quintuplet (5), and another triplet (3), with dynamics p, f, p, and ff. Vln. II has a half note (n) and a half note (mf). Vla. has a half note (pp), a half note (mf), a half note (pp), and a half note (mf), with pizzicato and arco markings. Vc. has a triplet (pizz.), a triplet (arco), a triplet (pizz.), and a triplet (arco), with dynamics p, mf, pp, and mf. DSP has a half note (n) and a half note (mf). Measure 106 has Vln. I with a triplet (p) and a half note (ff). Vln. II has a half note (n) and a half note (mf). Vla. has a half note (p) and a half note (mf). Vc. has a half note (pp) and a half note (mf). DSP has a half note (n) and a half note (mf). Measure 107 has Vln. I with a triplet (ord. 3), a triplet (3), and a half note (p), with dynamics p and f. Vln. II has a half note (n) and a half note (mf). Vla. has a half note (pp) and a half note (mf). Vc. has a half note (pp) and a half note (mf). DSP has a half note (p) and a half note (f). Measure 108 has Vln. I with a triplet (3) and a half note (3), with dynamics p and f. Vln. II has a half note (n) and a half note (mf). Vla. has a half note (pp) and a half note (mf). Vc. has a half note (pp) and a half note (mf). DSP has a half note (p) and a half note (f). The score includes various articulations like pizzicato, arco, and sul ponticello, as well as dynamic markings like piano, mezzo-forte, and fortissimo.

(watch V2)

109

from here to m.184, Vln. I, play with freedom and gusto, as if playing a solo cadenza, occasionally pausing where indicated

ad lib. ♩ = 100 ~ 110

Vln. I

Vln. II

Vla.

Vc.

DSP

v2 repeated with 1.5" and 2.8" delays
vln repeated with 1.4" delay, vc repeated with 1.9" delay

The score consists of four staves: Vln. I, Vln. II, Vla., and Vc. Each staff begins with the tempo marking 'ad lib. ♩ = 100 ~ 110'. The Vln. I staff includes performance instructions such as '3-5"', '8va', 'loco', and dynamic markings like 'n', 'pp', 'ff', 'mf', and 'ff'. The Vln. II staff includes 'pizz. 5', 'arco', and dynamic markings 'n', 'f', 'p', and 'f'. The Vla. staff includes 'pizz.', 'arco', and dynamic markings 'f', 'pp', 'f', 'pp', 'f', 'p', 'f', and 'mf'. The Vc. staff includes 'pizz.', 'arco', and dynamic markings 'f', 'p', 'f', 'pp', 'f', and 'pp'. The DSP section at the bottom contains a text box with delay instructions for the second violin, violin, and cello parts.

176

Vln. I *loco* *sfzp* *ff* *p* *ff* *p* *ff* *p* *ff* *loco* *ff* *loco* *ff*

Vln. II *pp* *f* *pp* *f* *pp* *f* *pp* *f* *pp* *f* *pp*

Vla. *5/4*

Vc. *sul pont.* *(ord.)* *pp* *f* *pp* *f* *pp* *f* *pp* *mf* *f* *pp* *f*

DSP (v2/vla/vc delays continues)

178

Vln. I

mf < *ff* *p* < *ff* *p* < *ff* *p* < *ff* *mf* < *ff* *p* < *ff*

2-3" *8va* *loco* *8va* *loco* *8va* *loco* *5* *5* *7:2* *7:2* *3* *3* *5*

Vln. II

pp < *ff* > *pp* < *f* > *pp* < *f* > *pp* < *f* > *pp* < *f* > *pp*

tr *tr*

Vla.

pp < *f* > *pp* < *f* > *pp* < *f* > *pp* *f* *pp* < *f* > *pp* < *f* > *pp*

tr *tr*

Vc.

pp < *f* > *pp* *f* *pp* < *f* > *pp* *mf* *f* *pp* < *f* > *pp* *f* *pp* < *f* >

5 *5* *tr*

DSP

(v2/vla/vc delays continues)

179

Vln. I

Vln. II

Vla.

Vc.

DSP

(v2/vla/vc delays continues)

The image shows a page of a musical score for strings and DSP. It contains five staves: Vln. I, Vln. II, Vla., Vc., and DSP. The DSP staff has a note that says "(v2/vla/vc delays continues)".

Vln. I: Starts at measure 179. The first staff has a treble clef and a key signature of one sharp (F#). It begins with a *pp* dynamic, followed by a crescendo to *ff*. The notation includes a *8va* marking with a dashed line, a *loco* marking, and several five-finger patterns (marked with '5'). There are also triplet markings (marked with '3'). The dynamics fluctuate, including *p*, *ff*, *mf*, and *ff*. The staff ends with a *mf* dynamic and a *ff* dynamic.

Vln. II: Starts at measure 179. The second staff has a treble clef and a key signature of one sharp (F#). It begins with a *f* dynamic, followed by a *pp* dynamic, then a crescendo to *f*, and another *pp* dynamic. The notation includes a *8va* marking with a dashed line and a *tr* (trill) marking. The dynamics fluctuate, including *pp*, *f*, and *pp*.

Vla.: Starts at measure 179. The third staff has an alto clef and a key signature of one sharp (F#). It begins with a *pp* dynamic, followed by a *f* dynamic, then a *pp* dynamic, a *f* dynamic, and another *pp* dynamic. The notation includes a *tr* (trill) marking and a five-finger pattern (marked with '5'). The dynamics fluctuate, including *pp*, *f*, and *pp*.

Vc.: Starts at measure 179. The fourth staff has a bass clef and a key signature of one sharp (F#). It is mostly blank, with some faint markings.

DSP: Starts at measure 179. The fifth staff has a treble clef and a key signature of one sharp (F#). It contains the text "(v2/vla/vc delays continues)".

180

Vln. I

Vln. II

Vla.

Vc.

DSP

(v2/vla/vc delays continues)

The musical score for this page includes the following details:

- Violin I (Vln. I):** Starts at measure 180. Features complex rhythmic patterns with triplets and quintuplets. Dynamic markings include *mf*, *ff*, *p*, and *ff*. Performance instructions include *8va* (octave up) and *loco* (loco playing).
- Violin II (Vln. II):** The staff is empty, indicating a rest for this instrument.
- Viola (Vla.):** Features a trill in measure 180, followed by a melodic line with dynamic markings *pp*, *f*, and *pp*. Includes a quintuplet and a trill.
- Violoncello (Vc.):** Features a melodic line with dynamic markings *f*, *pp*, *f*, and *pp*. Includes a quintuplet and a trill.
- DSP:** Contains the instruction "(v2/vla/vc delays continues)".

110

181

Vln. I

loco

sfzp < *ff*

mf < *ff*

p < *ff*

pp < *ff*

loco

mf < *ff*

8va-----

(trill on IV)

Vln. II

f

pp < *f* > *pp*

f

pp < *f*

8va-----

Vla.

Vc.

pp < *f* > *pp*

f

pp

DSP

(v2/vla/vc delays continues)

111 112

113

182

Vln. I

Violin I staff with musical notation, including dynamics *mf* and *ff*, and a breath mark *13"*.

Vln. II

Violin II staff with musical notation and a dynamic marking *pp*.

Vla.

Viola staff with musical notation, including a dynamic marking *pp*.

Vc.

Violoncello staff with musical notation and a dynamic marking *pp*.

DSP

Drum Set Performance (DSP) section with four staves and dynamic markings *pp*. Includes text "(v2/vla/vc delays continues)" and measure numbers -29, -26, -49, and -31.

ad lib. ♩ = 100 ~ 110
Everyone should play this page as if an unrestrained solo, with freedom and gusto. Go on to the next page after about 52".

184

Vln. I *8va* *loco*
p *ff* *p* *ff* *f* *ff* *p* *ff* *p* *ff*

Vln. II *8va* *loco*
ff *f* *p* *ff* *p* *ff* *pp* *f* *ff* *p* *f* *ff*

Vla. *op* *(ord.)*
ff *f* *pp* *ff* *pp* *ff* *p* *f* *ff*

Vc. *(arco)* *pizz.* *arco*
ff *f* *mf* *ff* *pp* *f* *pp* *f* *pp* *ff* *pp* *ff*

DSP
 (delay continues as before)

114

115

116

117

118

119

120

121

122

123

185

Vln. I

Vln. II

Vla.

Vc.

DSP

ff

ff

ff

ff

ff

ff

ff

♩ = 128

♩ = 120

♩ = 112

♩ = 104

5 - 8"

Each measure on this page should last 2-3 seconds. Begin playing continuous 16th notes where indicated at independent tempi. Measure 192 should last 5 - 10" followed by one last unison chord. Then freeze for 5 - 8" of silence.

Detailed description of the musical score: The score is for measures 114 to 123. It includes staves for Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vc.), and DSP (Digital Signal Processor). Measure 114 is marked with a tempo of 120 (♩ = 120). Measure 115 has a *ff* dynamic. Measure 116 has a tempo of 112 (♩ = 112) and a *ff* dynamic. Measure 117 has a *ff* dynamic. Measure 118 has a tempo of 104 (♩ = 104) and a *ff* dynamic. Measure 119 has a tempo of 128 (♩ = 128) and a *ff* dynamic. Measure 120 has a *ff* dynamic. Measure 121 has a *ff* dynamic. Measure 122 has a *ff* dynamic. Measure 123 has a *ff* dynamic and a 5-8" duration marking.

Relentless! ♩ = 120 ~ 132 (all parts independent, continuing for 20 ~ 30")

194

Vln. I *fff* *tr*

Vln. II *fff* *tr*

Vla. *fff* *tr*

Vc. *fff* *tr*

DSP

(looping delay on part of v2 material)

(looping delay on part of v2 material)

(looping delay on part of vla material)

(looping delay on part of vc material)

124

125

126

127

128

3-5"

195

Vln. I

Vln. II

Vla.

Vc.

DSP

f

p

n

sequential transitions to 16ths at $\text{♩} = 120 \sim 128$ (avoid rhythmic unison)
 (order of 8 transition starts: Vc., dsp, Vla., dsp, V2, dsp, dsp, V1)

Detailed description of the musical score: The score is for measures 124 through 128. It features five main staves: Vln. I, Vln. II, Vla., Vc., and DSP. The Vln. I and Vln. II parts play a melodic line of sixteenth notes, starting at measure 124 and continuing through measure 128. The Vla. and Vc. parts play a similar melodic line, but with a wavy line indicating a tremolo effect starting at measure 127. The DSP part consists of four staves (treble and bass clefs) playing a complex rhythmic pattern of sixteenth notes. The score includes dynamic markings: *f* (forte) at the beginning of the melodic lines, *p* (piano) at the end of the Vln. I part, and *n* (normal) at the end of the Vla. and Vc. parts. A text box provides instructions for the sequential transitions to 16ths, specifying the order of 8 transition starts: Vc., dsp, Vla., dsp, V2, dsp, dsp, V1. The tempo is indicated as $\text{♩} = 120 \sim 128$. The score is marked with measure numbers 124, 125, 126, 127, and 128. A rehearsal mark '195' is at the beginning of the Vln. I staff. A performance instruction '3-5"' is at the end of the Vln. I staff.

129

130

131

197

Vln. I

Vln. II

Vla.

Vc.

DSP

ad lib. ♩ = 60 ~ 80

8va

n *p* *pp* *mf* *pp* *p* *pp* *mf*

mf *p* *pp* *mf* *pp* *p* *pp* *mf*

15 - 20"

n *mf* *n*

n *mf*

(looping delay on part of v1 material)

(looping delay on part of v2 material)

♩ = 60

132

133

199

Vln. I

Vln. II

Vla. *mf* = 48 ~ 52 solo, ad libitum, with little expressivity, as if chanting a familiar prayer

Vc. *n* *p* *ad lib.* = 60 ~ 80

(looping delay continues as before)

(looping delay continues as before)

DSP

(looping delay on part of vc material)

(looping delay on part of vc material)

200

Vln. I



Vln. II



Vla.



Vc.



(looping delay continues as before)



(looping delay continues as before)



DSP

(looping delay continues as before)



(looping delay continues as before)



The Viola part contains a complex rhythmic pattern. It begins with a triplet of eighth notes, followed by a quintuplet of eighth notes, and then a septuplet of eighth notes. The pattern continues with various combinations of these groupings, including a triplet of eighth notes followed by a quintuplet, and a septuplet followed by a triplet. The notes are primarily eighth and sixteenth notes, with some quarter notes. The key signature has one flat (B-flat), and the time signature is 4/4.

201

134 135 136 137 138

(watch VC) (watch vla)

Vln. I

Vln. II

Vla.

Vc.

DSP

pp *n* *n* *p* *n* *n* *n*

pp *n* *n* *p* *n* *n* *n*

pp *n* *n* *p* *n* *n* *n*

pp *n* *n* *p* *n* *n* *n*

pp *n* *n* *p* *n* *n* *n*

pp *n* *n* *p* *n* *n* *n*

(looping delay continues as before)

(looping delay continues as before)

(looping delay continues as before)

(delay continues as before)

FINE
15.11.16.3.17.25b.13