

Straus Ch. 3
Some Additional Relationships

CHAPTER OVERVIEW

Common Theorems	Set Relations
Under T_n (pp. 79-82)	Z-relation (pp. 91-93)
Under $T_n I$ (pp. 83-85)	Complement relation (pp. 93-96)
Aspects of Symmetry	Subset and superset relations (pp. 96-98)
Transpositional Symmetry (p. 82-83)	Transpositional combination (pp. 98-99)
Inversional Symmetry (p. 85-91)	Contour relations (pp. 99-102)
Composing-Out	Voice-Leading
Linear projections (p. 103-06)	Pitch-class counterpoint (p. 107)
	Atonal Pitch Space (pp. 110-12)

SET PROPERTIES

1. Unique multiplicity of ic (p. 14-15, 82)
2. Complementary set classes (pp. 93-96)
 - a. Proportional distribution of ic (p. 93)
 - b. Same degree of symmetry (p. 93)
3. TC property (p. 98-99)

TERMS & CONCEPTS

Common-Tone Theorems	Set Relations
Common tones under T_n (pp. 79-82)	Z-relation (pp. 91-93)
Tritone maps unto itself under T_6 (p. 80)	All-interval tetrachords (pp. 91-92)
Rahn TCS vector	Complement relation (p. 93-96)
Common tones under $T_n I$ (pp. 83-85)	- Literal complement
Index vector matrix (Fig. 3-7, p. 84)	- Abstract complement
Index vector (Fig. 3-6, p. 85)	- Self-complementary hexachords (p. 95)
Rahn TICS vector	Aggregate (p. 94)
Aspects of Symmetry	Subset/superset relations (p. 96-98)
Transpositional symmetry (pp. 82-83)	- Literal subset/superset
Degree of transpositional symmetry (p. p. 83)	- Abstract subset/superset
Inversional symmetry (p. 85-91)	Inclusion lattice (p. 96)
Geometric analogy for "mirror" inversion (p. 87)	Transpositional combination (p. 98-99)
Center of symmetry	Contour relations (p. 99-102)
Pitch symmetrical (p. 87)	CSEG, p. 99
Pitch-class symmetrical (pp. 87-88)	CSEG-class, pp. 100-101
Straus degree of symmetry notation (p. 90)	Composing-Out & Voice-Leading
Self-mapping operations (p. 90-91)	Composing-out (pp. 103-06)
Number of distinct members in a set class (p. 91)	Pitch-class counterpoint (p. 107-08)
	Transformational voice leading (pp. 107-10)
	Fuzzy- T_n (p. 108-10)
	Voice-leading space (pp. 111-112)

Reference

- Bain, Reginald. *Atonal Assistant*. Available online at: <<http://reginaldbain.com>>, under Software.
- Morris, Robert. *Bob's Atonal Theory Primer*. Available online at: <<http://ecmc.rochester.edu/rdm/downloads.html>>
- Rahn, John. *Basic Atonal Theory*. New York: Longman, 1980.