

Contents

Part I Tutorials

- 1 **Tutorial on Inconsistency-Adaptive Logics** 3
Diderik Batens
- 2 **Round Squares Are No Contradictions (Tutorial on Negation
Contradiction and Opposition)** 39
Jean-Yves Beziau
- 3 **On the Philosophy and Mathematics of the Logics of Formal
Inconsistency** 57
Walter Carnielli and Abilio Rodrigues

Part II Many-valued Systems of Paraconsistent Logic

- 4 **Three-Valued Paraconsistent Propositional Logics** 91
Ofer Arieli and Arnon Avron
- 5 **Strong Three-Valued Paraconsistent Logics** 131
Jean-Yves Beziau and Anna Franceschetto
- 6 **An Approach to Paraconsistent Multivalued Logic: Evaluation
by Complex Truth Values** 147
J. Nescolarde-Selva, J.L. Usó-Doménech and K. Alonso-Stenberg
- 7 **A Paraconsistent Logic Obtained from an Algebra-Valued Model
of Set Theory** 165
Sourov Tarafder and Mihir Kr. Chakraborty
- 8 **Two Consistent Many-Valued Logics for Paraconsistent
Phenomena** 185
Esko Turunen and J. Tinguaro Rodríguez

Part III Paraconsistency and Modality

- 9 On Modal Logics Defining Jaśkowski-Like Discussive Logics** 213
Marek Nasieniewski and Andrzej Pietruszczak
- 10 From Possibility Theory to Paraconsistency.** 229
Davide Ciucci and Didier Dubois
- 11 Modality, Potentiality, and Contradiction in Quantum
Mechanics** 249
Christian de Ronde

Part IV Tools and Framework

- 12 Consequence–Inconsistency Interrelation: In the Framework
of Paraconsistent Logics** 269
Soma Dutta and Mihir K. Chakraborty
- 13 Univalent Foundations of Mathematics and Paraconsistency** 285
Vladimir L. Vasyukov
- 14 A Method of Defining Paraconsistent Tableaus** 295
Tomasz Jarmużek and Marcin Tkaczyk
- 15 Some Adaptive Contributions to Logics of Formal
Inconsistency** 309
Diderik Batens
- 16 Stipulation and Symmetrical Consequence.** 335
Bryson Brown
- 17 Logic—The Big Picture** 353
Ross T. Brady
- 18 The Evil Twin: The Basics of Complement-Toposes.** 375
Luis Estrada-González
- 19 Topological Semantics for da Costa Paraconsistent Logics
 C_ω and C_ω^* ** 427
Can Başkent

Part V Philosophical Aspects and Applications of Paraconsistent Logic

- 20 Perceiving and Modelling Brightness Contradictions
Through the Study of Brightness Illusions.** 447
Ashish Bakshi and Kuntal Ghosh
- 21 Truth, Trivialism, and Perceptual Illusions** 465
Otávio Bueno

- 22 Being Permitted, Inconsistencies, and Question Raising 477**
Andrzej Wiśniewski
- 23 On the Type-Free Paracoherent Foundation of Mathematics
with the Sedate Extension of Classical Logic by the Librationist
Set Theory \mathbb{L} , and Specifically on Why \mathbb{L} Is Neither Inconsistent
nor Contradictory nor Paraconsistent 509**
Frode Bjørdal
- 24 None of the Above: The Catuskoṭi in Indian Buddhist Logic 517**
Graham Priest
- 25 Eastern Proto-Logics 529**
Fabien Schang



<http://www.springer.com/978-81-322-2717-5>

New Directions in Paraconsistent Logic

5th WCP, Kolkata, India, February 2014

Beziau, J.-Y.; Chakraborty, M.; Dutta, S. (Eds.)

2015, XI, 552 p. 92 illus., 23 illus. in color., Hardcover

ISBN: 978-81-322-2717-5