

Contents

Preface vii

Preface to the Second Edition xi

Part I. Universal Logic: Frameworks and Structures

Jean-Yves Beziau

From Consequence Operator to Universal Logic:
A Survey of General Abstract Logic 3

Marta García-Matos and Jouko Väänänen

Abstract Model Theory as a Framework for Universal Logic 19

Steffen Lewitzka

A Topological Approach to Universal Logic:
Model-Theoretical Abstract Logics 35

Ramon Jansana

Selfextensional Logics with Implication 63

Pierre Ageron

Logic without Self-Deductibility 87

Part II. Identity and Nature of Logical Structures

Carlos Caleiro and Ricardo Gonçalves

Equipollent Logical Systems 97

Till Mossakowski, Joseph Goguen, Răzvan Diaconescu and Andrzej Tarlecki

What is a Logic? 111

Lutz Straßburger

What is a Logic, and What is a Proof? 135

Part III. Tools and Concepts for Universal Logic*Arnon Avron*

Non-deterministic Matrices and Modular Semantics of Rules155

Carlos Caleiro, Walter Carnielli, Marcelo Coniglio and João Marcos

Two's Company: "The Humbug of Many Logical Values"175

David Makinson

Friendliness and Sympathy in Logic195

Lloyd Humberstone

Logical Discrimination225



<http://www.springer.com/978-3-7643-8353-4>

Logica Universalis

Towards a General Theory of Logic

Beziau, J.-Y. (Ed.)

2007, XII, 246 p., Softcover

ISBN: 978-3-7643-8353-4

A product of Birkhäuser Basel