

Springer

1st  
edition

2014, XIV, 276 p.

**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-319-01588-0

\$ 119,99

Available

**Discount group**

Professional Books (2)

**Product category**

Monograph

**Series**

Springer Monographs in Mathematics

**Other renditions**

Softcover

ISBN 978-3-319-03299-3

Mathematics : Mathematical Logic and Foundations

Ciungu, Lavinia Corina

# Non-commutative Multiple-Valued Logic Algebras

- **First monograph which treats unitary the non-commutative multiple-valued logic algebras from general to particular; that is, from pseudo-BCK algebras to pseudo-MV algebras**
- **Explains the development of the field over the past few decades**
- **Presents a fresh view on new trends in logic and algebra**

This monograph provides a self-contained and easy-to-read introduction to non-commutative multiple-valued logic algebras; a subject which has attracted much interest in the past few years because of its impact on information science, artificial intelligence and other subjects. A study of the newest results in the field, the monograph includes treatment of pseudo-BCK algebras, pseudo-hoops, residuated lattices, bounded divisible residuated lattices, pseudo-MTL algebras, pseudo-BL algebras and pseudo-MV algebras. It provides a fresh perspective on new trends in logic and algebras in that algebraic structures can be developed into fuzzy logics which connect quantum mechanics, mathematical logic, probability theory, algebra and soft computing. Written in a clear, concise and direct manner, Non-Commutative Multiple-Valued Logic Algebras will be of interest to masters and PhD students, as well as researchers in mathematical logic and theoretical computer science.

**Order online at [springer.com/booksellers](http://springer.com/booksellers)****Springer Nature Customer Service Center LLC**

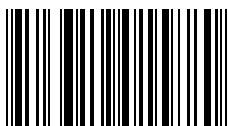
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

[customerservice@springernature.com](mailto:customerservice@springernature.com)

ISBN 978-3-319-01588-0 / BIC: PBC / SPRINGER NATURE: SCM24005

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**