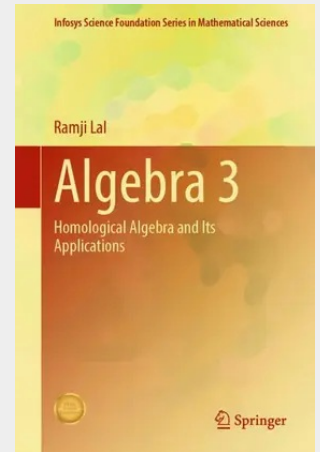


Algebra 3

Homological Algebra and Its Applications

This book, the third book in the four-volume series in algebra, deals with important topics in homological algebra, including abstract theory of derived functors, sheaf co-homology, and an introduction to étale and ℓ -adic co-homology. It contains four chapters which discuss homology theory in an abelian category together with some important and fundamental applications in geometry, topology, algebraic geometry (including basics in abstract algebraic geometry), and group theory. The book will be of value to graduate and higher undergraduate students specializing in any branch of mathematics. The author has tried to make the book self-contained by introducing relevant concepts and results required. Prerequisite knowledge of the basics of algebra, linear algebra, topology, and calculus of several variables will be useful.

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53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789813363250

Medium: Buch

ISBN: 978-981-336-325-0

Verlag: Springer Nature Singapore

Erscheinungstermin: 28.02.2021

Sprache(n): Englisch

Auflage: 1. Auflage 2021

Serie: Infosys Science Foundation Series

Produktform: Gebunden

Gewicht: 641 g

Seiten: 300

Format (B x H): 160 x 241 mm

