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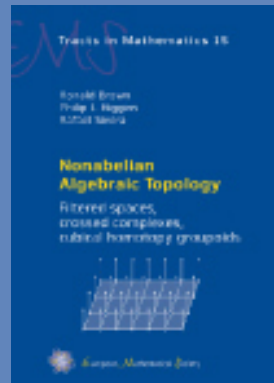
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EMS Tracts in Mathematics Vol. 15

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Nonabelian Algebraic Topology

Filtered Spaces, Crossed Complexes, Cubical Homotopy Groupoids

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August 2011, 703 pages, hardcover, 17 x 24 cm, 98.00 Euro

The main theme of this book is that the theory of cubical groupoids allows the development of basic nonabelian algebraic topology; these algebraic structures become more useful than those commonly in use because their composition has been largely overlooked. The theory of cubical groupoids has been largely overlooked.

The structure of the book is intended to be useful for researchers for learning and evaluating the theory, also in higher category theory and its applications to physics and computer science. Part I explains the theory in many figures and diagrams, and a detailed treatment develops the applications of crossed complexes. Part II develops the work of Part III on cubical n -groupoids, and Part IV develops homotopically defined examples for filtered spaces, further directions and problems, and the applications of the theory of category theory. Endnotes for each chapter.

Keywords: Algebraic topology, homotopy theory, cubical groupoids

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