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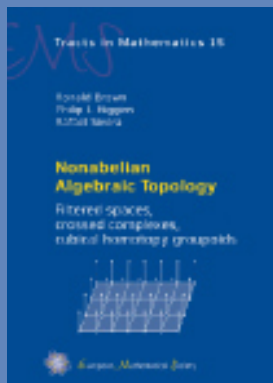
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EMS Tracts in Mathematics Vol. 15

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Nonabelian Algebraic Topology

Filtered Spaces, Crossed Complexes, Cubical Groupoids

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

Keywords: Algebraic topology, homotopy theory, cubical groupoids

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