Constructibility

Since their inception, the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians. Many of the original books in the series have been unavailable for years, but they are now in print once again.

In this volume, the 6th publication in the Perspectives in Logic series, Keith Devlin gives a comprehensive account of the theory of constructible sets at an advanced level. The book provides complete coverage of the theory itself, rather than the many and diverse applications of constructibility theory, although applications are used to motivate and illustrate the theory.

The book is divided into two parts: Part A (Elementary Theory) deals with the classical definition of the $L_\alpha$-hierarchy of constructible sets and may be used as the basis of a graduate course on constructibility theory; and Part B (Advanced Theory) deals with the $J_\alpha$-hierarchy and the Jensen “fine-structure theory”.

Keith J. Devlin works in the Department of Mathematics at the University of Lancaster.
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PERSPECTIVES IN LOGIC

Constructibility

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ASSOCIATION FOR SYMBOLIC LOGIC

CAMBRIDGE UNIVERSITY PRESS
Cambridge University Press
978-1-107-16835-0 — Constructibility
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Preface to the Series

Perspectives in Mathematical Logic

Headquarters: Cambridge University Press

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Cambridge University Press
978-1-107-16835-0 — Constructibility
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The development of the modern theory of constructibility is a rich and active area of research with a number of important applications in logic and computer science. The book provides a comprehensive introduction to the theory of constructibility, focusing on the core concepts and techniques that underpin the subject.

The book is intended for advanced undergraduate and graduate students in mathematics and computer science, as well as researchers in related fields.

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