Handbook of Measure Theory

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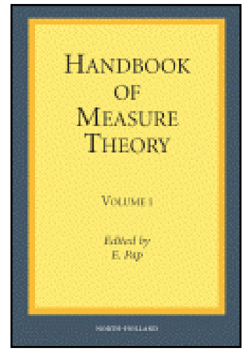

Description

The main goal of this handbook is to survey measure theory with its many different branches and its relations with other areas of mathematics. Mostly aggregating many classical branches of measure theory, the aim of the Handbook is also to cover new fields, approaches and applications which support the idea of "measure" in a wider sense, which are covered in the ninth part of the Handbook. Although chapters are written of surveys in the various areas they contain many special topics and challenging problems valuable for experts and rich sources of inspiration. Mathematicians from other areas as well as physicists, computer scientists, engineers and econometrists will find useful results and powerful methods for their research. The handbook contains examples of many close relations to other mathematical areas: real analysis, probability theory, statistics, ergodic theory, functional analysis, potential theory, topology, set theory, geometry, differential equations, optimization, variational analysis, decision making and others. The Handbook is a rich source of relevant references to articles, books and lecture notes and contains an extensive subject and author index.

Audience

Mathematicians (Researchers, Postgraduate, Students), Knowledge and Artificial Intelligence Researcher, Engineers and Economists (Decision Making)

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