

ZMATH 2015e.00711

Junghenn, Hugo D.

A course in real analysis.

Boca Raton, FL: CRC Press (ISBN 978-1-4822-1927-2/hbk+ebook). xxiii, 589 p. (2015).

This book is a classical university textbook in real analysis. The first part is devoted to the theory of functions of one variable. It contains standard topics, like, number sequences, limits, continuity, differentiation, Riemann integrals, numeric and functional sequences. The second part covers the theory of functions of several variables, their differentiation, Lebesgue integrals, curves, surfaces and integrals on them. An introductory part deals with the basics of metric spaces theory. The book is carefully written, with rigorous proofs and a sufficient number of solved and unsolved problems. It is suitable for most university courses in mathematical analysis.

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Classification: I15

Keywords: real analysis; differential calculus; integral calculus; measure and integration