

## Concepts of Function Theory

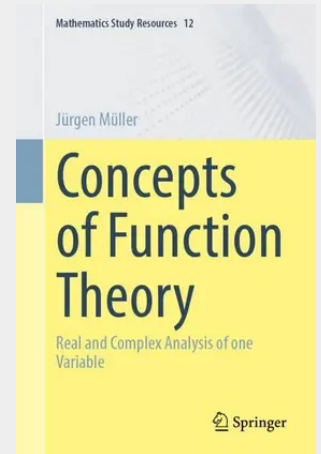
Real and Complex Analysis of one Variable

This textbook presents a direct path from real analysis of one variable to function theory. Classical topics of one-dimensional real analysis, such as differential and integral calculus, are largely presented from a complex perspective. The goal is a self-contained exposition extending to the Runge theorems and the dynamics of entire functions. Short sections appended to each chapter on concepts of function theory provide glimpses into higher-dimensional analysis and an impression of its universal significance for mathematics. The book is structured so that parts can also serve as a basis for a seminar.

Thus, this fascinating area of mathematics becomes accessible to students whose programs do not focus on mathematics and for whom a classical introduction to function theory would be too time-consuming. This book enables them to take a step into complex analysis, through which they can recognize a multitude of connections that remain hidden in real analysis.

The translation was done with the help of artificial intelligence. A subsequent human revision was done primarily in terms of content.

This textbook presents a direct path from real analysis of one variable to function theory. Classical topics of one-dimensional real analysis, such as differential and integral calculus, are largely presented from a complex perspective. The goal is a self-contained exposition extending to the Runge theorems and the dynamics of entire functions. Short sections appended to each chapter on concepts of function theory provide glimpses into higher-dimensional analysis and an impression of its universal significance for mathematics. The book is structured so that parts can also serve as a basis for a seminar. Thus, this fascinating area of mathematics becomes accessible to students whose programs do not focus on mathematics and for whom a classical introduction to function theory would be too time-consuming. This book enables them to take a step into complex analysis, through which they can recognize a multitude of connections that remain hidden in real analysis. The translation was done with the help of artificial intelligence. A subsequent human revision was done primarily in terms of content.



**58,84 €**

54,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

**Artikelnummer:** 9783662691144

**Medium:** Buch

**ISBN:** 978-3-662-69114-4

**Verlag:** Springer

**Erscheinungstermin:** 02.03.2025

**Sprache(n):** Englisch

**Auflage:** 2025

**Serie:** Mathematics Study Resources

**Produktform:** Kartoniert

**Gewicht:** 486 g

**Seiten:** 274

**Format (B x H):** 155 x 235 mm

