



2nd ed. 2013, XIV, 404 p. 35 illus.

### Printed book

#### Hardcover

- ▶ 44,99 € | £40.99 | \$59.95
- ▶ \*48,14 € (D) | 49,49 € (A) | CHF 60.00

### eBook

For individual purchases buy at a lower price on [springer.com](http://springer.com). Also available from libraries offering Springer's eBook Collection.

- ▶ [springer.com/ebooks](http://springer.com/ebooks)

### MyCopy

Printed eBook exclusively available to patrons whose library offers Springer's eBook Collection.\*\*\*

- ▶ € | \$ 24.95
- ▶ [springer.com/mycopy](http://springer.com/mycopy)

K.A. Ross, University of Oregon, Eugene, OR, USA

## Elementary Analysis

The Theory of Calculus

Series: Undergraduate Texts in Mathematics

- ▶ Revised and updated second edition with new material
- ▶ Text for a transition course between calculus and more advanced analysis courses
- ▶ Contains new material on topics such as irrationality of pi, the Baire category theorem, Newton's method and the secant method, and continuous nowhere-differentiable functions
- ▶ Includes new examples and improved proofs

For over three decades, this best-selling classic has been used by thousands of students in the United States and abroad as a must-have textbook for a transitional course from calculus to analysis. It has proven to be very useful for mathematics majors who have no previous experience with rigorous proofs. Its friendly style unlocks the mystery of writing proofs, while carefully examining the theoretical basis for calculus. Proofs are given in full, and the large number of well-chosen examples and exercises range from routine to challenging.

The second edition preserves the book's clear and concise style, illuminating discussions, and simple, well-motivated proofs. New topics include material on the irrationality of pi, the Baire category theorem, Newton's method and the secant method, and continuous nowhere-differentiable functions.

Review from the first edition:

"This book is intended for the student who has a good, but naïve, understanding of elementary calculus and now wishes to gain a thorough understanding of a few basic concepts in analysis.... The author has tried to write in an informal but precise style, stressing motivation and methods of proof, and ... has succeeded admirably."

—MATHEMATICAL REVIEWS



Order online at [springer.com](http://springer.com) ▶ or for the Americas call (toll free) 1-800-SPRINGER ▶ or email us at: [orders-ny@springer.com](mailto:orders-ny@springer.com). ▶ For outside the Americas call +49 (0) 6221-345-4301 ▶ or email us at: [orders-hd-individuals@springer.com](mailto:orders-hd-individuals@springer.com).

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with \* include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with \*\* include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted.

\*\*\* Regional restrictions apply.