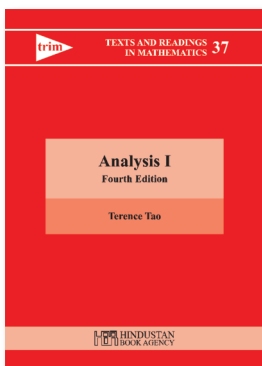


# PICK UP THIS BESTSELLER FROM

# HINDUSTAN BOOK AGENCY



## Analysis I Fourth Edition

Terence Tao, *University of California, Los Angeles, CA*

This is part one of a two-volume introduction to real analysis and is intended for honors undergraduates who have already been exposed to calculus. The emphasis is on rigor and on foundations. The material starts at the very beginning—the construction of the number systems and set theory—then goes on to the basics of analysis (limits, series, continuity, differentiation, Riemann integration), through to power series, several variable calculus and Fourier analysis, and finally to the Lebesgue integral. These are almost entirely set in the concrete setting of the real line and Euclidean spaces, although there is some material on abstract metric and topological spaces. There are also appendices on mathematical logic and the decimal system. The entire text (omitting some less central topics) can be taught in two quarters of twenty-five to thirty lectures each.

The course material is deeply intertwined with the exercises, as it is intended that the student actively learn the material (and practice thinking and writing rigorously) by proving several of the key results in the theory.

The fourth edition incorporates a large number of corrections reported since the release of the third edition, as well as some new exercises.

Hindustan Book Agency; 2022; 376 pages; Hardcover; ISBN: 978-81-95196-19-7; List US\$62; AMS members US\$49.60; Order code HIN/82

Titles published by the Hindustan Book Agency (New Delhi, India) include studies in advanced mathematics, monographs, lecture notes, and/or conference proceedings on current topics of interest.



See all titles in the Hindustan series—[bookstore.ams.org/hin](https://bookstore.ams.org/hin)

Publications of the Hindustan Book Agency are distributed within the Americas by the American Mathematical Society; maximum discount of 20% for commercial channels.



AMERICAN  
MATHEMATICAL  
SOCIETY

Advancing research. Creating connections.