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Sinopsis

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Approximation Theory and Approximation Practice is a textbook on classical polynomial and rational approximation theory for the twenty-first century. It is aimed at advanced undergraduates and graduate students across all of applied mathematics.

This book differs fundamentally from other works on approximation theory:

- ? The emphasis is on topics close to numerical algorithms.
- ? Everything is illustrated with Chebfun.
- ? Each chapter is a PUBLISHable Matlab M-file, available online.
- ? The emphasis is on theorems and methods for analytic functions, which appear so often in applications, rather than on functions at the edge of discontinuity with their seductive theoretical challenges.
- ? Original sources are cited rather than textbooks, and each item in the bibliography is accompanied by an editorial comment.

Nick Trefethen is Professor of Numerical Analysis at Oxford University and a Fellow of the Royal Society. During 2011?2012 he served as President of SIAM.