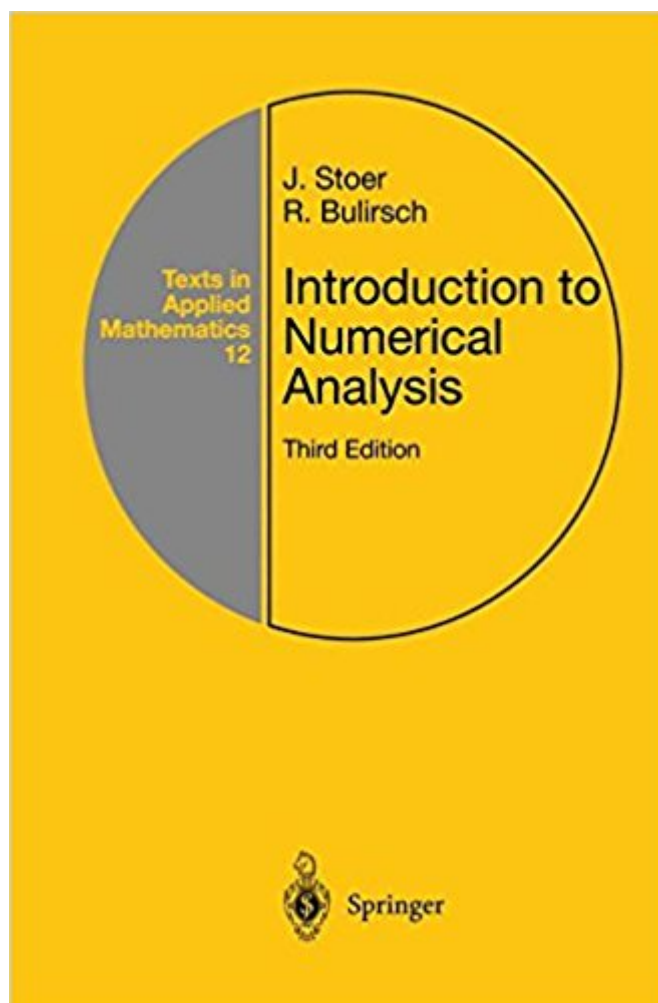


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Introduction To Numerical Analysis (Texts In Applied Mathematics)



Synopsis

New edition of a well-known classic in the field; Previous edition sold over 6000 copies worldwide;
Fully-worked examples; Many carefully selected problems

Book Information

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Customer Reviews

In the course of my graduate studies, I got lots of books in Numerical Mathematics. I read most of them, at least the chapters related to my work in Computer-Aided Design and Simulation of electronic circuits. I have some of the books in several editions, as happens with this book from Stoer & Bulirsch (I have the 2nd and 3rd eds. of S&B). It isn't an easy read, and I remember having had some "viscous friction" in getting into the notation, a minor annoyance quickly surpassed. But when I had to jump into theorem proofs and fine tuning of algorithms, this book was the preferred. I recommend the chapters on Linear Systems, on solving Nonlinear Equations and on solving Ordinary Differential Equations, which I "used" a lot. This last 3rd edition already has some material about solving Linear Systems of equations with Krylov Space methods, such as GMRES. As happens with many books, it can be complemented with texts offering a different point of view on Numerical Analysis. I recommend the classics from Hamming Numerical Methods for Scientists and Engineers, from Lanczos Applied Analysis, from Dahlquist and Bjork Numerical Methods, from Atkinson

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