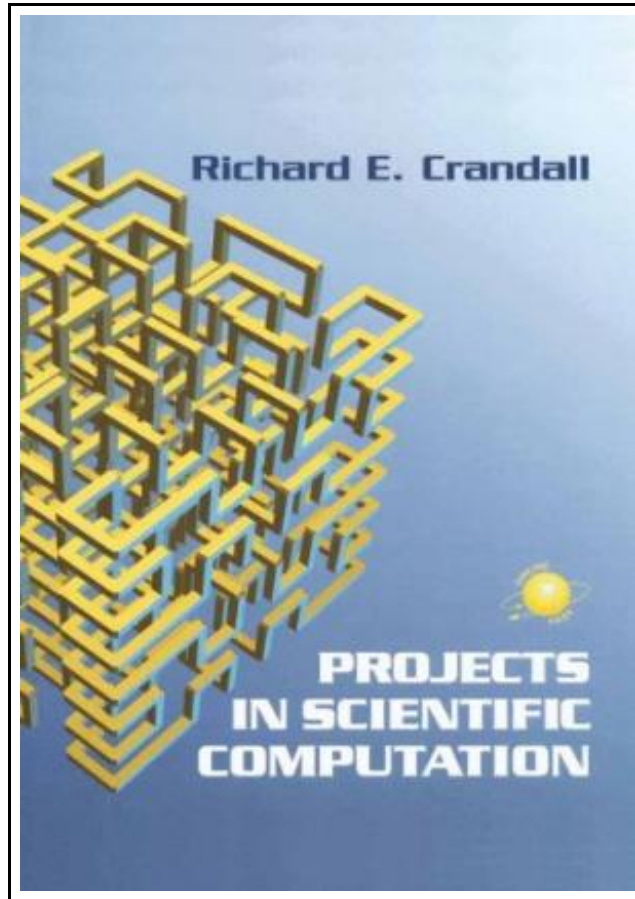


Projects in Scientific Computation



Filesize: 2.62 MB

Reviews

It in a of the most popular book. It really is filled with wisdom and knowledge You may like how the article writer publish this pdf.

(Kellie Huels)

PROJECTS IN SCIENTIFIC COMPUTATION



Book Condition: New. Publisher/Verlag: Springer, Berlin | This interdisciplinary book provides a compendium of projects, plus numerous example programs for readers to study and explore. Designed for advanced undergraduates or graduates of science, mathematics and engineering who will deal with scientific computation in their future studies and research, it also contains new and useful reference materials for researchers. The problem sets range from the tutorial to exploratory and, at times, to "the impossible". The projects were collected from research results and computational dilemmas during the author's tenure as Chief Scientist at NeXT Computer, and from his lectures at Reed College. The content assumes familiarity with such college topics as calculus, differential equations, and at least elementary programming. Each project focuses on computation, theory, graphics, or a combination of these, and is designed with an estimated level of difficulty. The support code for each takes the form of either C or Mathematica, and is included in the appendix and on the bundled diskette. The algorithms are clearly laid out within the projects, such that the book may be used with other symbolic numerical and algebraic manipulation products. System requirements: Any NEXTSTEP computer running Mathematica 2.0 or higher is recommended to fully utilize disk contents. The diskette is also compatible with DOS, Windows, Macintosh and most UNIX computer systems (especially C language and Mathematica). | 1 Numbers everywhere Selected topics in numerical analysis.- 1.1 Numerical evaluation.- 1.1.1 Evaluation of famous constants.- 1.1.2 Evaluation of elementary functions.- 1.1.3 Special functions.- 1.2 Equation solving.- 1.2.1 Matrix algebra.- 1.2.2 Non-linear equation systems.- 1.2.3 Differential equations.- 1.3 Random numbers and Monte Carlo.- 1.3.1 Generating Random Numbers.- 1.3.2 Numerical integration and Monte Carlo.- 2 Exploratory computation Collected intra- and interdisciplinary projects.- 2.1 Mathematical problems.- 2.1.1 Planar geometry problems.- 2.1.2 Symbolic manipulation.- 2.1.3 Real and complex analysis.- 2.2 Nature-motivated...



[Read Projects in Scientific Computation Online](#)



[Download PDF Projects in Scientific Computation](#)

See Also



ESL Stories for Preschool: Book 1 (Paperback)

Createspace, United States, 2013. Paperback. Book Condition: New. 212 x 210 mm. Language: English . Brand New Book ***** Print on Demand *****.A big attractive colourful book for ESL beginners, aged 3 to 5. It...

[Save PDF >](#)



The Poems and Prose of Ernest Dowson

Book Jungle. Paperback. Book Condition: New. Paperback. 200 pages. Dimensions: 9.2in. x 7.5in. x 0.5in.The Poems and Prose of Ernest Dowson The Project Gutenberg EBook of The PoemsAnd Prose Of Ernest Dowson by Ernest...

[Save PDF >](#)



Art appreciation (travel services and hotel management professional services and management expertise secondary vocational education teaching materials supporting national planning book)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Pages Number: 146 Publisher: Higher Education Pub. Date :2009-07-01 version 2. This book is...

[Save PDF >](#)



Oxford Very First Dictionary (Paperback)

Oxford University Press, United Kingdom, 2012. Paperback. Book Condition: New. Georgie Birkett (illustrator). 234 x 182 mm. Language: English . Brand New Book. A fully illustrated alphabetical first dictionary for 4-5 year-olds. A fresh new...

[Save PDF >](#)



Would It Kill You to Stop Doing That?

Book Condition: New. Publisher/Verlag: Little, Brown Book Group | A Modern Guide to Manners | A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford. | A few years...

[Save PDF >](#)

**Sleeping Beauty - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Sleeping Beauty - Read it Yourself with Ladybird: Level 2, In this classic fairy tale, Sleeping Beauty pricks her finger on a spinning wheel and falls

[Read ePub »](#)

**Read Write Inc. Phonics: Purple Set 2 Non-Fiction 1 Hens (Paperback)**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 200 x 172 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

[Read ePub »](#)

**TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2) (Chinese Edition)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the

[Read ePub »](#)

**Peppa Pig: Nature Trail - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peppa Pig: Nature Trail - Read it Yourself with Ladybird: Level 2, Peppa Pig and her family are enjoying a nature walk when they get lost.

[Read ePub »](#)

**Topsy and Tim: The Big Race - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Topsy and Tim: The Big Race - Read it Yourself with Ladybird: Level 2, Jean Adamson, This is an enhanced read-along audio ebook from Ladybird. An

[Read ePub »](#)