Discrete Mathematics for Computer Scientists (2nd Edition)

By John Truss

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This is a new edition of a successful introduction to discrete mathematics for computer scientists, updated and reorganised to be more appropriate for the modern day undergraduate audience. Discrete mathematics forms the theoretical basis for computer science and this text combines a rigorous approach to mathematical concepts with strong motivation of these techniques via practical examples.

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Discrete Mathematics for Computer Scientists (2nd Edition) By John Truss Bibliography

- Sales Rank: #2115781 in Books
- Published on: 1998-10-07
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.25" w x 6.88" l, 1.90 pounds
- Binding: Paperback
- 608 pages

Editorial Review

From the Back Cover

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Key Features

- Thorough coverage of all area of discrete mathematics, including logic, natural numbers, coding theory, combinatorics, sets, algebraic functions, partially ordered structures, graphs, formal machines & complexity theory
- Special emphasis on the central role of propositional & predicate logic
- Full chapters on algorithm analysis & complexity theory
- Introductory coverage of formal machines & coding theory
- Over 700 exercises
- Flexible structure so that the material can be easily adapted for different teaching styles.

New to this Edition

- Improved treatment of induction
- Coverage of more 'basic' algebra
- List of symbols including page references for definition/explantion
- Modern text design and new exercises to aid student comprehension

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About the Author

John Truss has taught at Oxford University, Paisley College of Technology and currently at the University of Leeds. He has been a committee member of the British Logic Colloquium since 1990, and has recently been appointed an editor of the Journal of the London Mathematical Society. He wrote Foundations of Mathematical Analysis in 1997 and has authored 40 research papers.

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