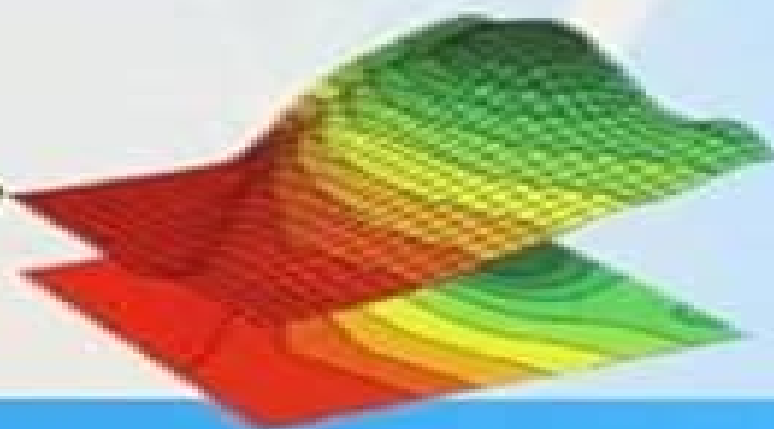


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# A TEXTBOOK OF **DISCRETE MATHEMATICS**

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Dr. SWAPAN KUMAR SARKAR

**S. CHAND**

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Discrete Mathematics Krishna R. Kumar,2005-12 *Indian Books in Print* ,2003 *Mathematical Reviews* ,2005

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theory Dijkstra's shortest path algorithm reverse polish notation Warshall's algorithm Menger's theorem Turing machine and LR k parsers which form a part of the fundamental applications of discrete mathematics in computer science In addition Pigeonhole principle ring homomorphism field and integral domain trees network flows languages and recurrence relations The text is supported with a large number of examples worked out problems and diagrams that help students understand the theoretical explanations The book is intended as a text for postgraduate students of mathematics computer science and computer applications In addition it will be extremely useful for the undergraduate students of computer science and engineering

**Fundamental Approach to Discrete Mathematics** D. P. Acharjya, 2009 About the Book The book Fundamental Approach to Discrete Mathematics is a required part of pursuing a computer science degree at most universities It provides in depth knowledge to the subject for beginners and stimulates further interest in the topic The salient features of this book include Strong coverage of key topics involving recurrence relation combinatorics Boolean algebra graph theory and fuzzy set theory Algorithms and examples integrated throughout the book to bring clarity to the fundamental concepts Each concept and definition is followed by thoughtful examples

Discrete Mathematics S. K. Chakraborty, B. K. Sarkar, 2011-02-10 Discrete Mathematics is designed to serve as a textbook for undergraduate engineering students of computer science and postgraduate students of computer applications The book would also prove useful to post graduate students of mathematics It seeks to provide a thorough understanding of the subject and present its practical applications to computer science

*Discrete Mathematics and Graph Theory* Dr. Jhade Srinivas, Mr. Shambhu Sharan Srivastava, Dr. P. Mahalakshmi, Dr. Sachin Kumar Agrawal, 2024-11-13 Discrete Mathematics and Graph Theory the foundational concepts and advanced topics of discrete mathematics and graph theory Designed for students and professionals in mathematics computer science and engineering it explores topics like logic set theory combinatorics graph algorithms and network flows The emphasizes problem solving rigorous proofs and real world applications making it an essential resource for mastering discrete structures and their role in computational and theoretical disciplines With clear explanations and numerous examples it bridges the gap between theory and practice effectively

*Discrete Mathematics with Graph Theory* Santosh Kumar Yadav, 2023-07-14 This book is designed to meet the requirement of undergraduate and postgraduate students pursuing computer science information technology mathematical science and physical science course No formal prerequisites are needed to understand the text matter except a very reasonable background in college algebra The text contains in depth coverage of all major topics proposed by professional institutions and universities for a discrete mathematics course It emphasizes on problem solving techniques pattern recognition conjecturing induction applications of varying nature proof technique algorithmic development algorithm correctness and numeric computations A sufficient amount of theory is included for those who enjoy the beauty in development of the subject and a wealth of applications as well as for those who enjoy the power of problem solving techniques Biographical sketches of nearly 25 mathematicians and

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*Discrete Mathematics* Iyengar, N.Ch. S.N./Chandrasekaran V.M./Venkalesh K.A. & Arunachalam P.S.,2003-11-01 Student friendly and comprehensive this book covers topics such as Mathematical Logic Set Theory Algebraic Systems Boolean Algebra and Graph Theory that are essential to the study of Computer Science in great detail

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