Discrete Mathematics Swapan Kumar Sarkar

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Combinatorics and Graph Theory is designed as a textbook for undergraduate students of computer science and engineering and postgraduate students of computer applications. The book seeks to introduce students to the mathematical concepts needed to develop abstract thinking and problem solving—important prerequisites for the study of computer science. The book provides an exhaustive coverage of various concepts and remarkable introduction of several topics of combinatorics and graph theory. The book presents an informative exposure for beginners and acts as a reference for advanced students. It highlights comprehensive and rigorous views of combinatorics and graphs. The text shows simplicity and step-by-step concepts throughout and is profusely illustrated with diagrams. The real-world applications corresponding to the topics are appropriately highlighted. The chapters have also been interspersed throughout with numerous interesting and instructional notes. Written in a lucid style, the book helps students apply the mathematical tools to computer-related concepts and consists of around 600 worked-out examples which motivate students as a self-learning mode.KEY FEATURES Contains various exercises with their answers or hints. Lays emphasis on the applicability of mathematical structures to computer science. Includes competitive examinations' questions asked in GATE, NET, SET, etc The book in its present form is due to my interaction with the students for quite a long time.It had been my long-cherished desire to write a book covering most of the topics that form the syllabii of the Engineering and Science students at the degree level.Many students,although able to understand the various topics of the books,may not be able to put their knowledge to use.For this purpose a number of questions and problems are given at the end of each chapter.
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A Textbook of Discrete MathematicsB.E./B.Tech., B.Sc. and M.Sc. (Computer Science), BCA, MCA and Other Computer Related Professional CoursesDiscrete Mathematics
This textbook provides an introduction to some fundamental concepts in Discrete Mathematics and the important role this subject plays in computer science. Every topic in this book has been started with necessary introduction and developed gradually up to the standard form. The book lays emphasis on the applicability of Mathematical structures to computer science. The content of this book is well supported with numerous solved examples with detailed explanation
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The Ideas of Discrete Mathematics are the fundamental to the science and technology specific to the computer age.thhis book is primarily designed to provied an introduction to some fundamental concepts in Discrete Mathematics for the students of graduate and postgraduate on computer science as well as the students of diploma and degree level in computer engineering.The students assigned with BCA and MCA Programs and IT related other professional courses may also be benefitted.
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