



A First Course in Discrete Mathematics (Springer Undergraduate Mathematics Series)

By Ian Anderson

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Drawing on many years' experience of teaching discrete mathematics to students of all levels, Anderson introduces such aspects as enumeration, graph theory and configurations or arrangements. Starting with an introduction to counting and related problems, he moves on to the basic ideas of graph theory with particular emphasis on trees and planar graphs. He describes the inclusion-exclusion principle followed by partitions of sets which in turn leads to a study of Stirling and Bell numbers. Then follows a treatment of Hamiltonian cycles, Eulerian circuits in graphs, and Latin squares as well as proof of Hall's theorem. He concludes with the constructions of schedules and a brief introduction to block designs. Each chapter is backed by a number of examples, with straightforward applications of ideas and more challenging problems.

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