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Mathematical Physics: Advanced Topics is the second of a two-volume set designed for senior undergraduate and postgraduate students. The author provides detailed discussion of topics including partial differential equations, ordinary differential equations, special functions including gamma, beta and Bessel functions, classical orthogonal polynomials, spherical harmonics, generalized functions, the Dirac-delta function, Fourier transforms, group theory, eigenvalues, eigenvectors, matrix representations and diagonalization of matrices, complex variables, analytic functions, Taylor and Laurent series, contour integrals, residue theorem and applications, and method of steepest descent.