

How to Solve Applied Mathematics Problems (Paperback)

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Reviews

An exceptional publication as well as the font employed was exciting to see. it was actually writtern extremely flawlessly and helpful. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Dominic Collins)

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Dover Publications Inc., United States, 2011. Paperback. Condition: New. Language: English . Brand New Book. The ability to solve problems in applied mathematics depends upon understanding concepts rather than memorizing formulas or rote learning. This volume bridges the gap between lectures and practical applications, offering students of mathematics, engineering, and physics the chance to practice solving problems from a wide variety of fields. The two-part treatment begins with chapters on vector algebra, kinematics, dynamics of a particle, vector field theory, Newtonian gravitation, electricity and magnetism, fluid dynamics, and classical dynamics. The second part examines Fourier series and Fourier and Laplace transforms, integral equations, wave motion, heat conduction, tensor analysis, special and general relativity, quantum theory, and variational principles. The final chapter contains problems associated with many of the preceding chapters and expresses them in terms of the calculus of variations.

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