# Mathematical Methods in Physics & Engineering 2d Edition

*By John W. Dettman Professor of Mathematics Oakland University*

**Mathematical Methods in Physics & Engineering 2d Edition** By John W. Dettman Professor of Mathematics Oakland University

*International Series In Pure And Applied Mathematics*

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In the 7 years since the 1st edition was published the trend toward introducing mathematical topics earlier in the undergraduate curriculum has continued. This probably obviates the devotion of a chapter of this book to linear algebra. However, since it may be several years before it is common for advanced undergraduate students of engineering and physics to be sufficiently well prepared in linear algebra, the first chapter remains to be linear algebra. This can serve as a prerequisite for the rest of the book. Sections on vibration problems and linear programming illustrate some of the applications of the linear algebra in physics and engineering. A chapter on Hilbert spaces which carries the subject through the special theory for self-adjoint completely continuous operators. This makes it possible to tighten up the treatment of boundary-value problems and integral equations. Chapter 8 depends heavily on analytic functions of a complex variable, and chapter 7 on analytic function theory. The entire book can be comprehended by an undergraduate student with a good course in calculus which includes infinite series and uniform convergence. There are many recurring themed which thread their way through the whole development. Vector space concept, eigenvalue problem, partial differential equations and integral equations. The calculus of variations presents a unified method of handling many problems. The same can be said of transform techniques. The method of constructing Green's functions is applicable to many types of boundary-value problems, and it allows one to formulate problems inn terms of integral equations, thus opening up new possibilities for solution.

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