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this book is not an applied mathematics book in the sense that the mathematics is not applied to physical biological or social problems what applications that do appear are in the form of examples or exercises which illustrate the techniques developed in the text however this is a collection of basic mathematical techniques and results which can be applied to a much wider variety of physically motivated problems than those given in the exercises and examples it is intended that the techniques and results presented here will enable students and workers in the engineering and physical sciences to better understand and use the mathematical techniques which underlie the formulation and solution of so many physical problems for convenience the work has been split into three parts part i elementary analysis part ii advanced analysis and

part iii algebraic methods this division is of course somewhat arbitrary since many elementary analytic methods and results are used in both parts ii and iii and some of the material in part i is of a somewhat more advanced nature than implied in the title although an effort has been made to keep the three parts as independent as possible there is of necessity a substantial amount of carry over particularly between parts i and ii

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physics

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light will be thrown on a variety of problems concerned with the construction and analysis of optimization models equilibrium models of mathematical economy modern numerical optimization methods and software methods of convex programming optimal with respect to complexity polynomial algorithms of linear programming decomposition of optimization systems modern apparatus of nonsmooth optimization models and methods of discrete programming

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