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Lothar Collatz

The Numerical Treatment of Differential Equations

Second Printing of the Third Edition



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Numerical Treatment Of Differential Equations

Rainer Ansorge, W. Tornig



Numerical Treatment Of Differential Equations:

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equations it has only been possible to present the basic ideas and many of the methods developed extensively by workers in applied fields hydro dynamics aerodynamics etc most of which have been developed for specific problems have had to be dismissed with little more than a reference to the literature However the aim of the book is not so much to reproduce these special methods their corresponding computing schemes etc as to acquaint a wide circle of engineers physicists and mathematicians with the general methods and to show with the aid of numerous worked examples that an idea of the quantitative behaviour of the solution of a differential equation problem can be obtained by numerical means with nothing like the trouble and labour that widespread prejudice would suggest This prejudice may be partly due to the kind of mathematical instruction given in technical colleges and universities in which although the theory of differential equations is dealt with in detail numerical methods are gone into only briefly

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