

Advanced Modern Engineering Mathematics

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Building on the foundations laid in the companion text modern engineering mathematics 3e, this book gives an extensive treatment of some of the advanced areas of mathematics that have applications in various fields of engineering, particularly as tools for computer-based system modelling, analysis and design. Table of contentsfunctions of a complex variable laplace transforms the z transformfourier series the fourier transform matrix analysis vector calculus numerical solution of ordinary differential equations partial differential equations optimization applied probability and statisticssalient featuresadditional graded examples and exercises increased emphasis on software packages, particularly symbolic algebra packages. Particular emphasis on use of matlab and maple, with basic commands introduced and illustrated more emphasis on numerical methods such as the treatment of finite elements

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