



Numerical Methods and Modelling for Engineering: 2016

By Richard Khoury, Douglas Wilhelm Harder

Springer International Publishing AG. Hardback. Book Condition: new. BRAND NEW, Numerical Methods and Modelling for Engineering: 2016, Richard Khoury, Douglas Wilhelm Harder, This textbook provides a step-by-step approach to numerical methods in engineering modelling. The authors provide a consistent treatment of the topic, from the ground, to reinforce for students that numerical methods are a set of mathematical modelling tools which allow engineers to represent realistic systems and compute features of these systems with a predictable error rate. Each method presented addresses a specific type of problem, namely root-finding, optimization, integral or derivative, initial value problem or boundary value problem. The authors demonstrate that after developing a proper model and understanding of the engineering situation they are working on, engineers can break down a model into a set of specific problems, and then apply the appropriate numerical method. Each numerical method described in this book encompasses a set of algorithms to solve the mathematical system it models, given some information and to a known error bound.

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