



Numerical methods and probability are crucial for solving complex problems and understanding uncertain outcomes in various fields. Numerical methods provide tools for approximating solutions to problems that are difficult or impossible to solve analytically, while probability helps quantify and analyze randomness in real-world phenomena. Our purpose in writing this book was to provide a clear, accessible treatment of Mathematics for students studying graduate or post graduate courses in science and engineering. It focuses on the interpretation of mathematical results, especially in real world settings. In addition to end of section practice and homework sets, examples of each topic are explained step-by-step throughout the text and followed by a problem that is designed as extra practice for students. The objective is to learn what methods are available and more importantly, when they should be applied. Many examples are presented to clarify the use of the techniques and to demonstrate what conclusions can be made.



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Pinaki Ranjan Duari
Arnab Bandyopadhyay

Computational Methods with Probability

A Text book on Numerical Methods and Probability



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