



A Survey of Industrial Mathematics (Paperback)

By Charles R. MacCluer

Dover Publications Inc., United States, 2010. Paperback. Condition: New. Dover. Language: English . Brand New Book. Students of mathematics, engineering, and science can learn how to apply classroom techniques to workplace problems with this concise single-volume text. It employs MATLAB and other strategies to resolve issues related to statistical reasoning, data acquisition, cost-benefit analysis, and other common workplace procedures. Each chapter begins with a brief review of relevant mathematics, followed by an examination of the material's typical industrial applications. The author demonstrates the problem-solving power of interweaving analytic and computing methods and integrates MATLAB code into the narrative flow. Topics include the Monte Carlo method, the discrete Fourier transform, linear programming, regression, microeconomics, ordinary and partial differential equations, and frequency domain methods. A concluding chapter on technical writing explains how to present mathematical data in a variety of situations and offers helpful suggestions for assembling formal technical reports, progress reports, executive summaries, and other statements.

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