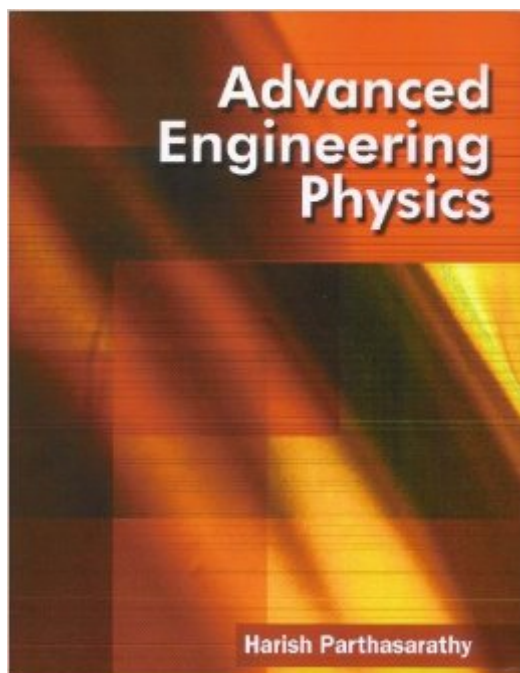# Advanced Engineering Physics: Theory And Practice

Synopsis

This book is intended to serve as a textbook for courses in engineering physics, and as a reference for researchers in theoretical physics with engineering applications introduced via study projects, which will be useful to researchers in analog and digital signal processing. The material has been drawn together from the author's extensive teaching experience, interpreting the classical theory of Landau and Lifschitz. The methodology employed is to describe the physical models via ordinary or partial differential equations, and then illustrate how digital signal processing techniques based on discretization of derivatives and partial derivatives can be applied to such models. Contents: 1. Mechanics 2. Fluid Dynamics 3. ElectroMagnetics 4. Relativity 5. Quantum Mechanics 6. Circuit Theory 7. Optics 8. Solid State Physics 9. Digital Signal Processing 10. Probability 11. Statistical PhysicsAlso available: Modern Physics - ISBN 1905740506 Material Science and Engineering - ISBN 1905740514Anshan Publishers is a publisher of fine medical, scientific, and technical books. We find the best titles from our worldwide publishing partners and bring them to the global marketplace. We publish in a wide range of fields, including:- Biological Sciences Biotechnology Chemistry Engineering Material Science Microbiology Pure and Applied Physics Pure and Applied Mathematics Statistics

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