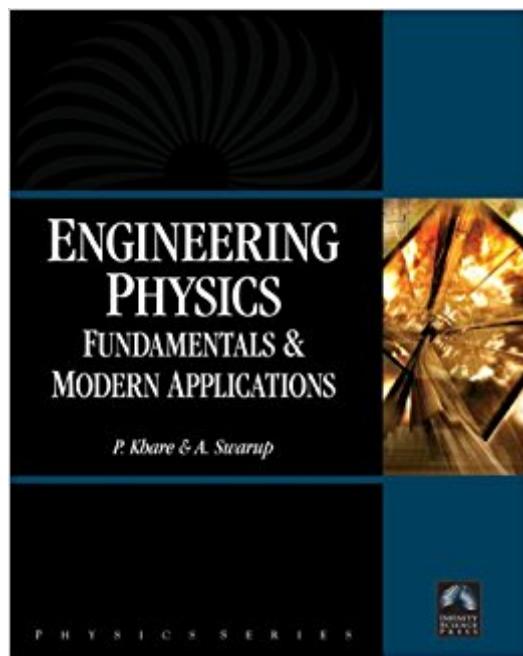


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# Engineering Physics: Fundamentals & Modern Applications (Physics)



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This text/reference provides students, practicing engineers, and scientists with the fundamental physical laws and modern applications used in industry. Unlike many of its competitors, modern physics theory (e.g., quantum physics) and its applications are discussed in detail, including laser techniques and fiber optics, nuclear fusion, digital electronics, wave optics, and more. An extensive review of Boolean algebra and logic gates is also included. Because of its in-text examples with solutions and self-study exercise sets, the book can be used as a refresher for engineering licensing exams or as a full year course. It emphasizes only the level of mathematics needed to master concepts used in industry. **FEATURES** \*Designed as a text/reference to provide students and practicing engineers with information on modern theory and industry applications \*Modern applications are discussed in detail, including laser techniques, holograms, fiber optics, nuclear fusion, digital electronics, wave optics, and more \*Includes material on Boolean algebra and logic gates \*CD-ROM includes simulations, a video tutorial, figures, and other resources **BRIEF TABLE OF CONTENTS** 1. Quantum Physics. 2. Electron Optics. 3. Geometrical Objects. 4. Wave Theory of Light. 5. Diffraction of Light. 6. Polarization of Light. 7. Nuclear Structure and Nuclear Forces. 8. Number Systems Used in Digital Electronics. 9. Logic Gates and Boolean algebra. 10. Dielectrics. 11. Lasers. 12. Fiber Optics. Appendix. About the CD-ROM. Index.

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Dr. P. Khare is a university instructor who has published textbooks and numerous articles in

international journals. Dr. A. Swarup is a consultant for World Bank (the Energy Access Project). He has over twenty years of teaching experience and holds degrees in mechanical engineering and software certification.

A cd-rom of demos accompanies Engineering Physics Fundamentals & Modern Applications, a pick recommended for college-level collections and packed with a blend of physical law reviews and updated industry applications examples. Perfect for classrooms as well as college physics collections, it's designed to be used as either a text or a working engineer's reference, and includes detailed descriptions of everything from fiber optics to holograms and logic gates. Perfect for either a survey or a refresher course.

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