

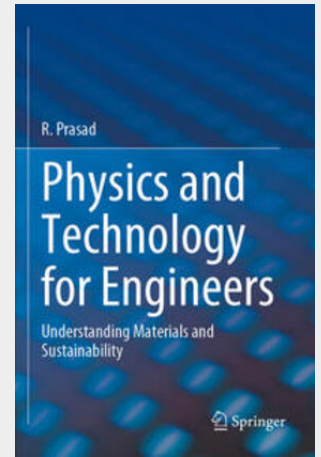
Prasad

## Physics and Technology for Engineers

Understanding Materials and Sustainability

This textbook covers the physics of engineering materials and the latest technologies used in modern engineering projects. It has been designed for use as a reference book and course material for undergraduate engineering students. The book was born out of the need for a comprehensive, balanced, and up-to-date guide for teaching physics to beginning undergraduate engineering students and creating examination papers for technical boards and institutes. The text is divided into ten chapters, each with its specific objectives and features. The topics covered include the classification of engineering materials, atomic structure, electrical and magnetic behavior of solids, quantum mechanics, laser technology, nanomaterials, and sustainable development. Authored by a physicist with over 40 years of teaching experience, this richly-illustrated textbook features an abundance of self-assessment questions, solved examples, and a variety of chapter-end questions with detailed answers. The textbook starts from the very basics and is developed to the desired level, thus making it ideal as standalone course material.

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