

Nirali Prakashan Book For Strength Of Material Sunil S Deo

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# **Nirali Prakashan Book For Strength Of Material Sunil S Deo: A Comprehensive Guide for Engineering Students**

Strength of material is a fundamental subject for engineering students who want to design and analyze various structures and machines. It deals with the study of stress, strain, deformation, and failure of solid materials under different loading conditions. To master this subject, students need a clear and concise textbook that covers both the theoretical and practical aspects of the topic.

One such textbook is Nirali Prakashan Book For Strength Of Material Sunil S Deo, written by Prof. Sunil S Deo, a renowned professor and author in the field of mechanical engineering. This book is designed to meet the syllabus requirements of various universities and technical boards in India. It covers all the topics in a systematic and logical manner, with ample examples, diagrams, tables, and solved problems. The book also includes objective type questions, review questions, and exercise problems at the end of each chapter to test the students' understanding and prepare them for examinations.

Some of the salient features of this book are:

- It follows a simple and lucid language that is easy to comprehend by the students.
- It provides a thorough treatment of both the static and dynamic aspects of strength of material.
- It incorporates the latest developments and applications of strength of material in various fields such as aerospace, automobile, civil, and biomedical engineering.
- It contains more than 500 illustrations and 1000 solved problems to enhance the learning experience of the students.
- It offers a comprehensive appendix that contains useful formulae, conversion factors, and properties of materials.

Nirali Prakashan Book For Strength Of Material Sunil S Deo is an ideal textbook for engineering students who want to learn the fundamentals and applications of strength of material in a simple and effective way. It is also a valuable reference book for practicing engineers and researchers who want to update their knowledge and skills in this domain.

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In this book, the students will learn the basic concepts and principles of strength of material, such as stress and strain, elastic and plastic behavior, Hooke's law, Poisson's ratio, thermal stress, shear stress, torsion, bending, deflection, buckling, and fatigue. They will also learn how to apply these concepts to analyze and design various structural elements, such as beams, columns, shafts, springs, pressure vessels, and joints. The book also covers some advanced topics, such as energy methods, failure theories, composite materials, and experimental methods.

The book is divided into 16 chapters, each covering a specific topic in detail. The first chapter introduces the scope and importance of strength of material and reviews some basic concepts of mechanics. The next four chapters deal with the analysis of stress and strain in one-dimensional, two-dimensional, and three-dimensional cases. The sixth chapter discusses the elastic constants and

their relations. The seventh chapter explains the concept of thermal stress and its effects on materials. The eighth chapter covers the topic of torsion of circular shafts and thin-walled tubes. The ninth chapter deals with the bending of beams and the determination of bending stresses and shear stresses. The tenth chapter covers the deflection of beams and the methods of finding deflection. The eleventh chapter discusses the stability and buckling of columns under axial load. The twelfth chapter covers the topic of fatigue and its causes and effects on materials. The thirteenth chapter introduces the concept of energy methods and their applications to strength of material problems. The fourteenth chapter explains the various failure theories and criteria for ductile and brittle materials. The fifteenth chapter covers the topic of composite materials and their properties and applications. The sixteenth chapter describes the experimental methods and instruments used to measure stress and strain in materials.

The book is written in a student-friendly manner and follows a pedagogical approach that facilitates learning and retention. Each chapter begins with an introduction that outlines the objectives and scope of the chapter. Then, the main concepts and principles are explained in a clear and concise way, with relevant examples and diagrams to illustrate them. Next, a large number of solved problems are presented to demonstrate the application of the concepts to practical situations. Finally, each chapter ends with a summary that highlights the key points of the chapter, followed by objective type questions, review questions, and exercise problems to test the students' comprehension and problem-solving skills.

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