

Strength of Materials

Author :	D.S. Bedi
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Product Description

The sixth edition of the book has thoroughly been modified and enlarged to meet the revised syllabi of many universities and other professional examination like AMIE and above all to incorporate the suggestions received from the students and faculty alike. Additional problems on two-dimensional complex stress systems have been fully solved by both analytical and Mohr's circle method so that the readers are made aware of the fact that the sign shear stress on a particular plane has its one important role to play so as to arrive at the correct result which otherwise is normally overlooked or even sometimes neglected. The term "bending Moment" and "twisting Moment" have been introduced as vector quantities in order to bring out the difference between them so that the reader can easily decipher each of them and proceed ahead to accomplish the associated objectives. The chapter on Thick Cylinders had been re-written to keep uniformity in sign convention of the stresses throughout the entire text. Further in this chapter the process of autofrettage of a thick cylinder has been introduced along with the "Simplified" theory of this process. The author has endeavored to familiarize the readers with the "Yield point phenomenon of low carbon steel", "quantitative definitions of ductility and malleability" and "Negative Poisson's Ratio" which were hitherto not dealt with in most of the text on the subject. On the specific demand of the students almost all the chapters have been supplemented with objective type questions along with more number of worked examples.

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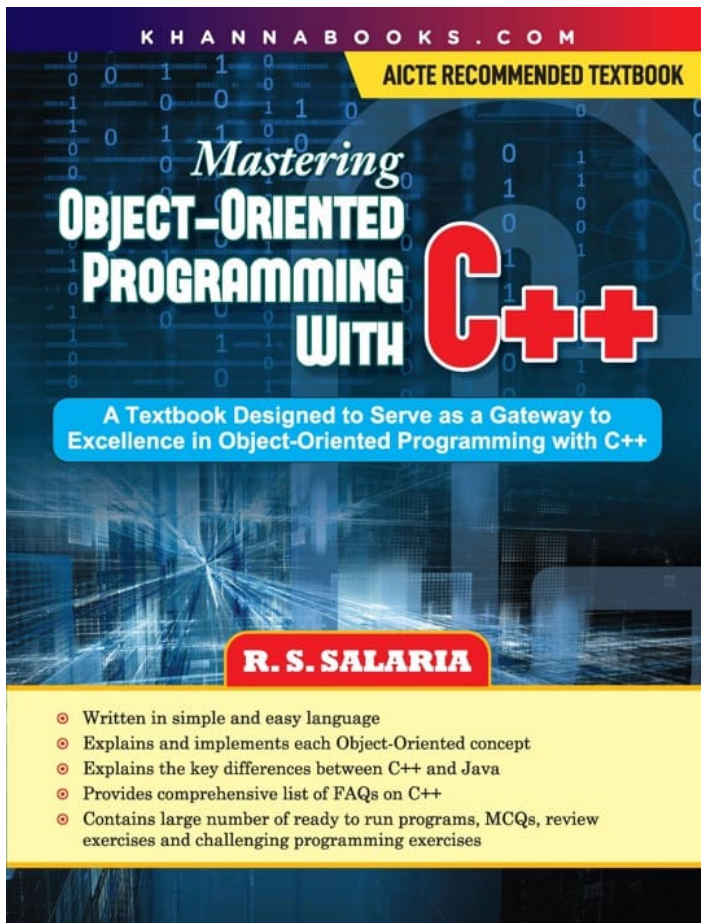
Chapter 1: Simple Stress and Strain. **Chapter 2:** Complex Stresses and Strains. **Chapter 3:** Shearing Force and Bending Moments in Beams. **Chapter 4:** Bending Stresses. **Chapter 5:** Shear Stresses in Beams. **Chapter 6:** Deflection of Beams. **Chapter 7:** Torsion of Circular Shafts. **Chapter 8:** Struts and Columns. **Chapter 9:** Thin Shells. **Chapter 10:** Thick Cylinders. **Chapter 11:** Springs. **Chapter 12:** Strain Energy and Deflection due to Shear and Bending. **Chapter 13:** Theories of Failure. **Chapter 14:** Bending of Curved Bars. **Chapter 15:** Stresses Due to Rotation. **Chapter 16:** Unsymmetrical Bending. **Chapter 17:** Plastic Theory of Bending. **Chapter 18:** Three Dimensional Stress System. **Chapter 19:** Torsion of Non-Circular Shafts. **Chapter 20:** Miscellaneous Problems. **Chapter 21:** Plastic Theory of Bending : Index. **Appendix**



Author

D.S. BEDI Dr. D.S. Bedi is one of the distinguished writers in India. He possesses a very excellent academic background. He had held various high positions viz. formerly Professor Emeritus at Department of Mechanical Engineering, Institute of Engineering and Technology (Punjab); Professor & Head, Dept. of Mechanical Engineering, Thapar Institute of Engineering & Technology (Punjab); Visiting Professor at Wayne State University, Detroit, MI (USA); Principal, Baba Banda Singh Bahadur Engineering College, (Punjab); Advisor-cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab.





Mastering Object-Oriented Programming With C++

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The C++ Programming Language is one of the popular programming language that support object-oriented programming in addition to procedural programming. All major IT companies are using C++ language as their preferred language in implementing substantial number of projects using object-oriented technology. To fulfill the requirement of these companies, all universities/institutions offering various courses on programming with C++ in their curriculum. This book is designed as a textbook for the students taking these courses. Throughout the book the level of presentation is kept simple and illustrative so that even and average reader can grasp the subject matter with quite ease practically this book will provide you everything you need on object-oriented programming with C++.



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 - Chapter 6:** Constructors and Destructors.
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Author

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