



Strength of Materials

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ISBN 13 :	978-93-82609-11-7
ISBN 10 :	93-82609-11-3
E-ISBN 13 :	978-93-82609-11-7
Edition :	6
Pages :	752
Type of book :	Paperback
Weight (g) :	900.00
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 575.00
Categories :	Civil Engineering , Civil Engineering
Condition Type :	New
Country Origin :	India

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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