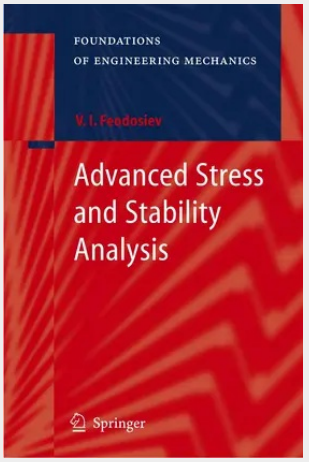
Feodosiev

Advanced Stress and Stability Analysis

Worked Examples

The problems and exercises in Strength and Stability that exceed the bounds of the ordinary university course in complexity and their statement are considered. The advanced problems liberalizing the readers and all- ing to see the connection of the Strength of Materials with some adjacent courses are collected in this book. All the problems and exercises are - compained with the detailed solutions. The set of new problems connected with the development of computer methods and with the application of composite materials in engineering are introduced in this publication. Author: Vsevolod I. Feodosiev Bauman Moscow State Technical University 2-nd Baumanskaya st. 5 105005 Moscow Russian Federation Translators: Sergey A. Voronov Sergey V. Yaresko Department of Applied Mechanics Bauman Moscow State Technical University 2-nd Baumanskaya st. 5 105005 Moscow Russian Federation E-mail: voronov@rk5. bmstu. ru Contents Part I. Problems and Questions 1. Tension, Compression and Torsion: 3 2. Cross-Section Geometry Characteristics: Bending: 17 3. Complex Stress State, Strength Criteria, Anisotropy: 33 4. Stability: 41 5. Various Questions and Problems: 63 Part II. Answers and Solutions 1. Tension, Compression and Torsion: 81 2. Cross-Section Geometry Characteristics. Bending: 127 3. Complex Stress State, Strength Criteria, Anisotropy: 195 4. Stability: 219 5. Various Questions and Problems: 359 References: 415 Preface This is a book, written by the famous late Russian engineer and educator Vsevolod I.

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