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Burstein, Leonid, 2021-02-12 Among the wide range of programming tools available the technical analysis and calculations are realized by MATLAB which is recognized as a convenient and effective tool for modern science and technology Thus mastering its latest versions and practical solutions is increasingly essential for the creation of new products in mechanics electronics chemistry life sciences and modern industry Modern mechanical and tribology sciences specialists widely use computers and some special programs but need a universal tool for solving simulating and modeling specific problems from their area There is plenty of information available on MATLAB for the general engineer but there is a gap in the field for research that applies MATLAB to two wide interdisciplinary and topical areas tribology and mechanics MATLAB With Applications in Mechanics and Tribology explores how MATLAB is used as a tool for subsequent computer solutions applying it to both traditional and modern problems of mechanics and materials sciences The problem solving in this book includes calculations of the mechanical parts machine elements production process quality assurance fluid mechanics parameters thermodynamic and rheological properties of the materials as well as the state equations descriptive statistics and more This book is ideal for scientists students and professors of engineering courses self instructing readers programmers computer scientists practitioners and researchers looking for concise and clear information on learning and applying MATLAB software to mechanics tribology and material physics

Roark's Formulas for Stress and Strain, 9E Richard G. Budynas, Ali M.

Sadegh, 2020-04-03 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The industry standard resource for stress and strain formulas fully updated for the latest advances and restructured for ease of use This newly designed and thoroughly revised guide contains accurate and thorough tabulated formulations that can be applied to the stress analysis of a comprehensive range of structural components Roark's Formulas for Stress and Strain Ninth Edition has been reorganized into a user friendly format that makes it easy to access and apply the information The book explains all of the formulas and analyses needed by designers and engineers for mechanical system design You will get a solid grounding in the theory behind each formula along with real world applications that cover a wide range of materials Coverage includes The behavior of bodies under stress Analytical numerical and experimental methods Tension compression shear and combined stress

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techniques which are used in various industries to damage tolerance evaluation of structures and the material stress state within the thread of the bolt and on each parameter affecting the structural integrity of a bolted joint The American Catalogue ,1891 **The American Catalog** ,1891 **New International Encyclopedia** ,1916 **The New International Encyclopædia** Frank Moore Colby,Talcott Williams,1917 **The New International Encyclopaedia** ,1929 **Industrial Refrigeration** ,1916 Mechanical Engineering ,1985 **Ice and Refrigeration** ,1916 Marine Engineer and Motorship Builder ,1907

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