



Theory of Elastic Stability (Dover Civil and Mechanical Engineering)

By Stephen P. Timoshenko, James M. Gere



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The best available guide to the elastic stability of large structures, this book introduces the principles and theory of structural stability. It was co-authored by the father of modern engineering mechanics, Stephen Timoshenko, and James Gere, who updated the materials and worked closely with Dr. Timoshenko. Relevant to aspects of civil, mechanical, and aerospace engineering, this classic covers the essentials of static and dynamic instabilities.

Topics range from theoretical explanations of 2- and 3-D stress and strain to practical applications such as torsion, bending, thermal stress, and wave propagation through solids. Additional subjects include beam columns, curved bars and arches, buckling of rings, and experiments and design formulas. Particularly suitable for advanced undergraduate and graduate students of engineering, this volume is also an indispensable reference for professionals.



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Editorial Review

About the Author

The father of modern engineering mechanics, Stephen Timoshenko (1868-1972) taught for decades at Stanford University. His seminal engineering texts remain in wide use.

Co-founder of the John A. Blume Earthquake Engineering Center, James M. Gere (1925-2008) taught for 34 years at Stanford University.

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