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General formulas for moment, hoop load, radial shear and deformations.

Moment  $M = M_A - N_A R (1 - u) + V_A R z + L T M$ . Hoop Stress  $N = N_A u + V_A z + L T N$ . Radial Shear  $V = -N_A z + V_A u + L T v$ .  $L T M$ ,  $L T N$ , and  $L T V$  are load terms for several types of load.

Note: Loads beyond  $180^\circ$  not support in load terms equations.  $L T M = -WR [1 - \cos(x - )]$   $x - 0$

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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

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- Analytical, numerical, and experimental methods
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- Beams and curved beams
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This is the definitive resource for  
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Acting as the be-all; end-all resource for designers; engineers; and analysts working with calculations of loads and stress; this renowned; authoritative guide is a reference you'll turn to project after project; year after year. --

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Peterson's is the practitioner's go-to stress concentration factors reference. Includes completely revised introductory chapters on fundamentals of stress analysis; miscellaneous design elements; finite element analysis (FEA) for stress analysis. Features new research on stress concentration factors related to weld joints and composite materials. Takes a deep dive into the theory and methods for material characterization, quantification and analysis methods of stress and strain, and static and fatigue design. Peterson's Stress Concentration Factors is an excellent book for all mechanical, civil, and structural engineers, and for all engineering students and researchers.

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This title is designed for engineers and analysts working with calculations of loads and stress. It includes information on joints, bearing and shear stress, experimental stress analysis, and stress concentrations.

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