



**High Temperature Structures and Materials:
Proceedings of the Third Symposium on Naval
Structural Mechanics Held at Columbia
University, New York, N.Y., January 23-25, 1963**

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High Temperature Structures and Materials is a compilation of the proceedings of the Third Symposium on Naval Structural Mechanics held at Columbia University in New York on January 23-25, 1963. The symposium provided a forum for discussing structural mechanics under conditions of elevated temperatures. Emphasis is placed on the various aspects of structural design for elevated temperature service. The following areas are covered: material aspects of elevated temperature design; effects of high-speed environment; thermal stress analysis; and design criteria and reliability.

This book is comprised of 13 chapters and begins by assessing the temperature dependence of elastic and anelastic properties in solids, followed by a discussion on the thermo-mechanical behavior of ceramics. Subsequent chapters explore the physical aspects of creep; thermal fatigue and its relation to creep rupture and mechanical fatigue; materials aspects of the re-entry problem; and problems of heat conduction and melting. Thermal stresses in viscoelastic solids are also considered, along with creep design and aspects of reliability under conditions of elevated temperature creep and fatigue.

This monograph will be a valuable resource for material physicists and mechanical and structural designers concerned with the problem of elevated temperature effects on the performance and safety of modern structures.



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