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Analysis and Design of Plated Structures (Hardback)

By N. E. Shanmugam, C. M. Wang

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2007. Hardback. Book Condition: New. 288 x 266 mm. Language: English . Brand New Book. Steel plated structures are used in a variety of marine and land-based applications, such as ships, off-shore platforms, power and chemical plants, box-girder cranes and bridges. Volume one considers the various types of buckling that plated structures are likely to encounter. Chapters also review buckling in a range of materials from steel to differing types of composite. The book discusses the behaviour of differing types of components used in steel-plated structures as well as curved, stiffened, corrugated, laminated and other types of plate design. Together with its companion volume, this is an essential reference in the design, construction and maintenance of plated structures. Volume two reviews dynamics, particularly vibration. Chapters review the behaviour of components such as beams and plates together with materials such as steel, ceramic-metal and other composites. Together with its companion volume, this important book summarises the wealth of research on understanding the behaviour of thin-walled (plated) components. It is an invaluable reference for all those concerned with the design, construction and service life of plated structures. * Discusses the behaviour of steel and other plated structures...



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