



Thermal Stress Analysis of Composite Beams, Plates and Shells: Computational Modelling and Applications

Erasmus Carrera, Fiorenzo A. Fazzolari, Maria Cinefra

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Thermal Stress Analysis of Beams, Plates and Shells presents classic and advanced thermal stress topics in a cutting-edge review of this critical area, tackling subjects that have little coverage in existing resources. It includes discussions of complex problems, such as multi-layered cases using modern advanced computational and vibrational methods.

Authors Carrera and Fazzolari begin with a review of the fundamentals of thermoelasticity and thermal stress analysis relating to advanced structures and the basic mechanics of beams, plates, and shells, making the book a self-contained reference.

More challenging topics are then addressed, including anisotropic thermal stress structures, static and dynamic responses of coupled and uncoupled thermoelastic problems, thermal buckling and post-buckling behavior of thermally loaded structures, and thermal effects on panel flutter phenomena, amongst others.

- Provides an overview of critical thermal stress theory and its relation to beams, plates, and shells, from classical concepts to the latest advanced theories
- Particularly of interest to those studying thermoelasticity, thermoelastics, stress analysis, multilayered structures, computational methods, buckling, static response, and dynamic response
- Includes the authors' unified formulation (UF) theory, along with cutting-edge topics that receive little coverage in other references
- Covers metallic and composite structures, including a complete analysis and sample problems of layered structures, considering both mesh and meshless methods
- Presents a valuable resource for those working on thermal stress problems in mechanical, civil, and aerospace engineering settings

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