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Plates and panels are primary components in many structures including space vehicles, aircraft, automobiles, buildings, bridge decks, ships and submarines. The ability to design, analyse, optimise and select the proper materials for these structures is a necessity for structural designers, analysts and researchers. This text consists of four parts.

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Plate and Panel Structures of Isotropic, Composite and Piezoelectric Materials, Including Sandwich Construction by JACK R. VINSON Center for Composite Materials and College of Marine Studies, Department of Mechanical Engineering, Spencer Laboratory, University of Delaware,

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(2016). A review and study on ultimate strength of steel plates and stiffened panels in axial compression. Ships and Offshore Structures: Vol. 11, No. 1, pp. 81-91.

Plates and panels are primary components in many structures including space vehicles, aircraft, automobiles, buildings, bridge decks, ships and submarines. The ability to design, analyse, optimise and select the proper materials for these structures is a necessity for structural designers, analysts and researchers. This text consists of four parts. The first deals with plates of isotropic (metallic and polymeric) materials. The second involves composite material plates, including anisotropy and laminate considerations. The third section treats sandwich constructions of various types, and the final section gives an introduction to plates involving piezoelectric materials, in which the "smart" or "intelligent" materials are used as actuators or sensors. In each section, the formulations encompass plate structures subjected to static loads, dynamic loads, buckling, thermal/moisture environments, and minimum weight structural optimisation. This is a textbook for a graduate course, an undergraduate senior course and a reference. Many homework problems are given in various chapters.

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Stability and Vibrations of Thin-Walled Composite Structures presents engineering and academic knowledge on the stability (buckling and post buckling) and vibrations of thin walled composite structures like columns, plates, and stringer stiffened plates and shells, which form the basic structures of the aeronautical and space sectors. Currently, this knowledge is dispersed in several books and manuscripts, covering all aspects of composite materials. The book enables both engineers and academics to locate valuable, up-to-date knowledge on buckling and vibrations, be it analytical or experimental, and use it for calculations or comparisons. The book is also useful as a textbook for advanced-level graduate courses. Presents a unified, systematic, detailed and comprehensive overview of the topic Contains contributions from leading experts in the field Includes a dedicated section on testing and experimental results

The use of fiber-reinforced polymer (FRP) composites in infrastructure systems has grown considerably in recent years because of the durability of composite materials. New constituent materials, manufacturing techniques, design approaches, and construction methods are being developed and introduced in practice by the FRP composites community to cost-effectively build FRP structural systems. FRP Composite Structures: Theory, Fundamentals, and Design brings clarity to the analysis and design of these FRP composite structural systems to advance the field implementation of structural systems with enhanced durability and reduced maintenance costs. It develops simplified mathematical models representing the behavior of beams and plates under static loads, after introducing generalized Hooke's Law for materials with anisotropic, orthotropic, transversely isotropic, and isotropic properties. Subsequently, the simplified models coupled with design methods including FRP composite material degradation factors are introduced by solving a wide range of practical design problems. This book: Explores practical and novel infrastructure designs and implementations Uses contemporary codes recently approved Includes FRP case studies from around the world Ensures readers fully understand the basic mechanics of composite materials before involving large-scale number crunching Details several advanced topics including aging of FRPs, typical failures of structures including joints, and design simplifications without loss of accuracy and emphasis on failure modes Features end of chapter problems and solved examples throughout. This textbook is aimed at advanced undergraduate and graduate students and industry professionals focused on the analysis and design of FRP composite structural members. It features PowerPoint lecture slides and a solutions manual for adopting professors.

This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures

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Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of

The design of many structures such as pressure vessels, aircrafts, bridge decks, dome roofs, and missiles is based on the theories of plates and shells. The degree of simplification needed to adopt the theories to the design of various structures depends on the type of structure and the required accuracy of the results. Hence, a water storage tank can be satisfactorily designed using the membrane shell theory, which disregards all bending moments, whereas the design of a missile casing requires a more precise analysis in order to minimize weight and materials. Similarly, the design of a nozzle-to-cylinder junction in a nuclear reactor may require a sophisticated finite element analysis to prevent fatigue failure while the same junction in an air accumulator in a gas station is designed by simple equations that satisfy equilibrium conditions. Accordingly, this book is written for engineers interested in the theories of plates and shells and their proper application to various structures. The examples given throughout the book subsequent to derivation of various theories are intended to show the engineer the level of analysis required to achieve a safe design with a given degree of accuracy. The book covers three general areas. These are: bending of plates; membrane and bending theories of shells; and buckling of plates and shells. Bending of plates is discussed in five chapters. Chapters 1 and 2 cover rectangular plates with various boundary and loading conditions.

This unique compendium presents some new topics related to thin-walled structures, like beams, plates and shells used in aerospace structures. It highlights their dynamic behaviors and also the correlation between compressive loading and natural frequency to enable a correlation between the two, yielding a valuable non-destructive tool, to predict buckling for thin-walled structures. This useful reference text combines valuable data on metal materials and composite materials together with new adaptive and smart materials like piezoelectricity, shape memory alloys and optic fibers, which form the present state of the art in thin-walled structure domain.

This book provides insight on processing mechanics during ship and offshore structure, and researchers, scientists, and engineers in the field of manufacturing process mechanics can benefit from the book. This book is written by subject experts based on the recent research results in FE computation on accuracy fabrication of ship and offshore structures based on processing mechanics. In order to deal with actual engineering problems during construction of ship and offshore structure, it proposes advanced computational approaches such as thermal elastic-plastic and elastic FE computations and

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employed to examine physical behavior and clarifies generation mechanism of mechanical response. As such, this book provides valuable knowledge, useful methods, and practical algorithms that can be considered in manufacturing process mechanics.

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