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This volume contains the proceedings of the 21st International Congress of Theoretical and Applied Mechanics, ICTAM04, held in Warsaw, in August 2004. Full texts of 27 invited lectures are included. The book captures a snapshot view of the state-of-the-art in the field of contemporary mechanics and will be invaluable to engineers and scientists from a variety of disciplines with interest in the mechanical sciences. The importance of the influence of contemporary mechanics on other branches of sciences becomes evident by browsing through over 60 areas of interest selected as subjects of mini-symposia and pre-nominated sessions. The book gives clear evidence that "...the progress we have achieved together definitely places mechanics on one of the very top locations in the hierarchy of modern research disciplines – with tremendous impact on both our perception of the physical world and the means to implement new technologies so much improving the quality of our life." (M. Kleiber, Opening Speech).

Issues in Structural and Materials Engineering: 2013 Edition is a ScholarlyEditions® book that delivers timely, authoritative,

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Composite materials, with their higher exposure to dynamic loads, have increasingly been used in aerospace, naval, automotive, sports and other sectors over the last few decades. Dynamic Deformation, Damage and Fracture in Composite Materials and Structures reviews various aspects of dynamic deformation, damage and fracture, mostly in composite laminates and sandwich structures, in a broad range of application fields including aerospace, automotive, defense and sports engineering. As the mechanical behavior and performance of composites varies under different dynamic loading regimes and velocities, the book is divided into sections that examine the different loading regimes and velocities. Part one examine low-velocity loading and part two looks at high-velocity loading. Part three then assesses shock and blast (i.e. contactless) events and the final part focuses on impact (contact) events. As sports applications of composites are linked to a specific subset of dynamic loading regimes, these applications are reviewed in the final part. Examines dynamic deformation and fracture of composite materials Covers experimental, analytical and numerical aspects Addresses important application areas such as aerospace, automotive, wind energy and defence, with a special section on sport applications

This book collects major research contributions in composite materials and sandwich structures supported by the U.S. Office of Naval Research. It contains over thirty chapters written by experts and serves as a reference and guide for future research.

This volume contains selected papers presented at the 7th International Conference on Theoretical, Applied, Computational and Experimental Mechanics. The papers come from diverse disciplines, such as aerospace, civil, mechanical, and reliability engineering, physics, and navel architecture. The contents of this volume focus on different aspects of mechanics, namely, fluid mechanics, solid mechanics, flight mechanics, control, and propulsion. This volume will be of use to researchers interested in the study of mechanics across disciplines.

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In the last quarter century, delamination has come to mean more than just a failure in adhesion between layers of bonded composite plies that might affect their load-bearing capacity. Ever-increasing computer power has meant that we can now detect and analyze delamination between, for example, cell walls in solid wood. This fast-moving and critically important field of study is covered in a book that provides everyone from manufacturers to research scientists the state of the art in wood delamination studies. Divided into three sections, the book first details the general aspects of the subject, from basic information including terminology, to the theoretical basis for the evaluation of delamination. A settled terminology in this subject area is a first key goal of the book, as the terms which describe delamination in wood and wood-based composites are numerous and often confusing. The second section examines different and highly specialized methods for delamination detection such as confocal laser scanning microscopy, light microscopy, scanning electron microscopy and ultrasonics. Ways in which NDE (non-destructive evaluation) can be employed to detect and locate defects are also covered. The book's final section focuses on the practical aspects of this defect in a wide range of wood products covering the spectrum from trees, logs, laminated panels and glued laminated timbers to parquet floors. Intended as a primary reference, this book covers everything from the microscopic, anatomical level of delamination within solid wood sections to an examination of the interface of wood and its surface coatings. It provides readers with the perspective of industry as well as laboratory and is thus a highly practical sourcebook for wood engineers working in manufacturing as well as a comprehensively referenced text for materials scientists wrestling with the theory underlying the subject.

Dynamic Behavior of Materials, Volume 1: Proceedings of the 2013 Annual Conference on Experimental and Applied Mechanics, the first volume of eight from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics, including papers on: General Dynamic Material Properties Novel Dynamic Testing Techniques Dynamic Fracture and Failure Novel Testing Techniques Dynamic Behavior of Geo-materials Dynamic Behavior of Biological and Biomimetic Materials Dynamic Behavior of Composites and Multifunctional Materials Dynamic Behavior of Low-Impedance materials Multi-scale Modeling of Dynamic Behavior of Materials Quantitative Visualization of Dynamic Behavior of Materials Shock/Blast Loading of Materials

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