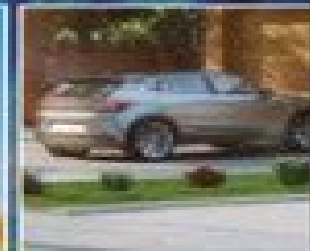


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Camarinha-Matos, Mafalda Parreira-Rocha, Javaneh Ramezani, 2017-04-19 This book constitutes the refereed proceedings of the 8th IFIP WG 5.5 SOCOLNET Advanced Doctoral Conference on Computing Electrical and Industrial Systems DoCEIS 2017 held in Costa de Caparica Portugal in May 2017 The 46 revised full papers were carefully reviewed and selected from 95 submissions The papers present selected results produced in engineering doctoral programs and focus on technological innovation for smart systems Research results and ongoing work are presented illustrated and discussed in the following areas collaborative networks computational intelligence systems analysis smart manufacturing systems smart sensorial systems embedded and real time systems energy management energy optimization distributed infrastructure solar energy electrical machines power electronics and electronics

Special Topics in Structural Dynamics, Volume 6 Gary

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Maritime Technology and Engineering 5 Volume 2 Carlos Guedes Soares, 2021-07-08 This set of two volumes comprises the collection of the papers presented at the 5th International Conference on Maritime Technology and Engineering MARTECH 2020 that was held in Lisbon Portugal from 16 to 19 November 2020 The Conference has evolved from the series of biennial national conferences in Portugal which have become an international event and which reflect the internationalization of the maritime sector and its activities MARTECH 2020 is the fifth of this new series of biennial conferences The set comprises 180 contributions that were reviewed by an International Scientific Committee Volume 2 is dedicated to ship performance and hydrodynamics including CFD maneuvering seakeeping moorings and resistance In addition it includes sections on ship machinery renewable energy fishing and aquaculture coastal structures and waves and currents

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Current Perspectives and New Directions in Mechanics, Modelling and Design of Structural Systems Alphose Zingoni, 2022-09-02 Current Perspectives and New Directions in Mechanics Modelling and Design of Structural Systems comprises 330 papers that were presented at the Eighth International Conference on Structural Engineering Mechanics and Computation SEMC 2022 Cape Town South Africa 5 7 September 2022 The topics featured may be clustered into six broad categories that span the themes of mechanics modelling and engineering design i mechanics of materials elasticity plasticity porous media fracture fatigue damage delamination viscosity creep shrinkage etc ii mechanics of structures dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii numerical modelling and experimental testing numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber v innovative concepts sustainable engineering and special structures nanostructures adaptive structures smart structures composite structures glass structures bio inspired structures shells membranes space structures lightweight structures etc vi the engineering process and life cycle considerations conceptualisation planning analysis design optimization construction assembly manufacture maintenance monitoring assessment repair strengthening retrofitting decommissioning Two versions of the papers are available full papers of length 6 pages are included in the e book while short papers of length 2 pages intended to be concise but self contained summaries of the full papers are in the printed book This work will be of interest to civil structural mechanical marine and aerospace engineers as well as planners and architects

Civil Structural Health Monitoring Carlo Rainieri, Giovanni Fabbrocino, Nicola Caterino, Francesca Ceroni, Matilde A. Notarangelo, 2021-08-24 This volume gathers the latest advances and innovations in the field of structural health monitoring

as presented at the 8th Civil Structural Health Monitoring Workshop CSHM 8 held on March 31 April 2 2021 It discusses emerging challenges in civil SHM and more broadly in the fields of smart materials and intelligent systems for civil engineering applications The contributions cover a diverse range of topics including applications of SHM to civil structures and infrastructures innovative sensing solutions for SHM data driven damage detection techniques nonlinear systems and analysis techniques influence of environmental and operational conditions aging structures and infrastructures in hazardous environments and SHM in earthquake prone regions Selected by means of a rigorous peer review process they will spur novel research directions and foster future multidisciplinary collaborations

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Rotating Machinery, Hybrid Test Methods, Vibro-Acoustics & Laser Vibrometry, Volume 8 James De Clerck, David S. Epp, 2025-08-07 Rotating Machinery Hybrid Test Methods Vibro Acoustics Laser Vibrometry Volume 8 Proceedings of the 34th IMAC A Conference and Exposition on Dynamics of Multiphysical Systems From Active Materials to Vibroacoustics 2016 the eighth volume of ten 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 Structural Dynamics including papers on Processing Modal Data Rotating Machinery Vibro Acoustics Laser Vibrometry Teaching Practices Hybrid Testing Reduced Order Modeling

Virtual Experiments in Mechanical Vibrations Michael J. Brennan, Bin Tang, 2022-10-03 VIRTUAL EXPERIMENTS IN MECHANICAL VIBRATIONS The first book of its kind to explain fundamental concepts in both vibrations and signal processing using MATLAB virtual experiments Students and young engineers with a strong grounding in engineering theory often lack the practical skills and knowledge required to carry out experimental work in the laboratory Fundamental and time consuming errors can be avoided with the appropriate training and a solid understanding of basic concepts in vibrations and or signal processing which are critical to testing new designs Virtual Experiments in Mechanical Vibrations Structural

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Dramatic Effect of Cross-Correlations in Random Vibrations of Discrete Systems, Beams, Plates, and Shells Isaac Elishakoff, 2020-04-11 This volume explains the dramatic effect of cross correlations in forming the structural response of aircraft in turbulent excitation, ships in rough seas, cars on irregular roads, and other dynamic regimes. It brings into sharp focus the dramatic effect of cross correlations often neglected due to the analytical difficulty of their evaluation. Veteran author Professor Isaac Elishakoff illustrates how neglect of cross correlations could result in underestimation of the response by tens or hundreds of percentages. The effect of the random vibrations of structures' main elements, including beams, plates, and shells.

Advanced Mechanical Vibrations Paolo Luciano Gatti, 2020-12-20 Advanced Mechanical Vibrations: Physics, Mathematics, and Applications provides a concise and solid exposition of the fundamental concepts and ideas that pervade many specialised disciplines where linear engineering vibrations are involved. Covering the main key aspects of the subject from the formulation of the equations of motion by means of analytical techniques to the response of discrete and continuous systems subjected to deterministic and random excitation, the text is ideal for intermediate to advanced students of engineering physics and mathematics. In addition, professionals working in or simply interested in the field of mechanical and structural vibrations will find the content helpful with an approach to the subject matter that places emphasis on the strict inextricable and sometimes subtle interrelations between physics and mathematics on the one hand and theory and applications on the other hand. It includes a number of worked examples in each chapter, two detailed mathematical appendixes, and an extensive list of references.

Topics in Modal Analysis & Parameter Identification, Volume 9 Brandon J. Dilworth, Timothy Marinone, Michael Mains, 2025-08-07 Topics in Modal Analysis: Testing Parameter

Identification Volume 9 Proceedings of the 41st IMAC A Conference and Exposition on Structural Dynamics 2023 the ninth volume of ten 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 Modal Analysis Modal Testing and Modal Parameter Identification including papers on Analytical Methods Modal Applications Basics of Modal Analysis Experimental Techniques Operational Modal Analysis Modal Parameter Identification Novel Techniques Rotating Machinery Additive Manufacturing Applications Biomedical Applications Dynamics of Civil Structures, Volume 2 Shamim Pakzad, 2025-08-07 Dynamics of Civil Structures Volume 2 Proceedings of the 36th IMAC A Conference and Exposition on Structural Dynamics 2018 the second volume of nine 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 the Dynamics of Civil Structures including papers on Modal Parameter Identification Dynamic Testing of Civil Structures Control of Human Induced Vibrations of Civil Structures Model Updating Damage Identification in Civil Infrastructure Bridge Dynamics Experimental Techniques for Civil Structures Hybrid Simulation of Civil Structures Vibration Control of Civil Structures System Identification of Civil Structures **Sensors and Instrumentation, Aircraft/Aerospace, Energy Harvesting & Dynamic Environments Testing, Volume 7** Chad Walber, Patrick Walter, Steve Seidlitz, 2025-08-07 Sensors and Instrumentation Aircraft Aerospace and Energy Harvesting Volume 7 Proceedings of the 37th IMAC A Conference and Exposition on Structural Dynamics 2019 the seventh 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 Shock Vibration Aircraft Aerospace Energy Harvesting Dynamic Environments Testing including papers on Alternative Sensing Acquisition Active Controls Instrumentation Aircraft Aerospace Aerospace Testing Techniques Energy Harvesting

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