PHENOMENOLOGICAL AND MATHEMATICAL MODELLING OF STRUCTURAL INSTABILITIES

EDITED BY

MARCELLO PIGNATARO VICTOR GIONCU



<u>Phenomenological And Mathematical Modelling Of</u> <u>Structural Instabilities</u>

Victor Gioncu, Federico Mazzolani

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Phenomenological and Mathematical Modelling of Structural Instabilities Marcello Pignataro, Victor Gioncu, 2005-05-17 The study of structural instability plays a role of primary importance in the field of applied mechanics Despite the remarkable progresses made in the recent past years the structural instability remains one of the most challenging topics in applied chanics Many problems have bee solved in the last decades but still many others remain to be solved satisfactorily The increasing number of papers published in jo nals and conferences organized by ECCS SSRC IUTAM and EUROMECH strongly indicates the interest of scientists and engineers in the subject A careful examination of these publications shows that they tend to fall into one of the two categories The first is that of practical design direction in which methods for analyzing specific stability problems related to some specific structural typologies are developed. The research works are restricted to determining the critical load considering that it is sufficient to know the limits of stability range These studies are invaluable since their aim is to provide solutions to practical problems to supply the designer with data useful for design and prepare norms specifications and codes The second direction is that of theoretical studies aiming at a mathematical modeling of the instability problems for a better understanding of the phenomena In these studies special emphasis is placed on the behavior of structures after the loss of stability in the post critical range This approach is less familiar to designers as its results have not yet become part of current structural design practice Phenomenological and Mathematical Modelling of Structural Instabilities Marcello Pignataro, Victor Gioncu, 2007-07-15 The study of structural instability plays a role of primary importance in the field of applied mechanics Despite the remarkable progresses made in the recent past vears the structural instability remains one of the most challenging topics in applied chanics Many problems have bee solved in the last decades but still many others remain to be solved satisfactorily. The increasing number of papers published in jo nals and conferences organized by ECCS SSRC IUTAM and EUROMECH strongly indicates the interest of scientists and engineers in the subject A careful examination of these publications shows that they tend to fall into one of the two categories The first is that of practical design direction in which methods for analyzing specific stability problems related to some specific structural typologies are developed. The research works are restricted to determining the critical load considering that it is sufficient to know the limits of stability range These studies are invaluable since their aim is to provide solutions to practical problems to supply the designer with data useful for design and prepare norms specifications and codes The second direction is that of theoretical studies aiming at a mathematical modeling of the instability problems for a better understanding of the phenomena In these studies special emphasis is placed on the behavior of structures after the loss of stability in the post critical range This approach is less familiar to designers as its results have not yet become part of current structural design practice ICCS19 19th International Conference on Composite Structures Antonio J.M. Ferreira, 2016-08-01 Nowadays it is guite easy to see various applications of fibrous composites functionally graded materials

laminated composite nano structured reinforcement morphing composites in many engineering fields such as aerospace mechanical naval and civil engineering The increase in the use of composite structures in different engineering practices justify the present international meeting where researches from every part of the globe can share and discuss the recent advancements regarding the use of standard structural components within advanced applications such as buckling vibrations repair reinforcements concrete composite laminated materials and more recent metamaterials For this reason the establishment of this 19th edition of International Conference on Composite Structures has appeared appropriate to continue what has been begun during the previous editions ICCS wants to be an occasion for many researchers from each part of the globe to meet and discuss about the recent advancements regarding the use of composite structures sandwich panels nanotechnology bio composites delamination and fracture experimental methods manufacturing and other countless topics that have filled many sessions during this conference As a proof of this event which has taken place in Porto Portugal selected plenary and keynote lectures have been collected in the present book **Coupled Instabilities in Metal** Structures Jacques Rondal, 2014-05-04 The aim of the book is to fill up the gaps between theoretical numerical and practical design approaches in the field of coupled instabilities of metal structures. The book is organized in a way leading progressively from the mathematical basic theories to the design aspects through numerical and semi empirical approaches of the interactive buckling of metal structures Optimum design account taken of coupled instabilities and code aspects are also briefly covered Proceedings of the 10th International Conference on Rotor Dynamics - IFToMM Katia Lucchesi Cavalca, Hans Ingo Weber, 2018-08-20 IFToMM conferences have a history of success due to the various advances achieved in the field of rotor dynamics over the past three decades These meetings have since become a leading global event bringing together specialists from industry and academia to promote the exchange of knowledge ideas and information on the latest developments in the dynamics of rotating machinery. The scope of the conference is broad including e.g. active components and vibration control balancing bearings condition monitoring dynamic analysis and stability wind turbines and generators electromechanical interactions in rotor dynamics and turbochargers The proceedings are divided into four volumes This fourth volume covers the following main topics aero engines turbochargers eolian wind generators automotive rotating systems and hydro power plants Rundbrief der Gesellschaft fur Angewandte Mathematik und Mechanik Gesellschaft für Angewandte Mathematik und Mechanik, 2002 Seismic Design of Steel Structures Victor Gioncu, Federico Mazzolani, 2013-11-20 Providing real world applications for different structural types and seismic characteristics Seismic Design of Steel Structures combines knowledge of seismic behavior of steel structures with the principles of earthquake engineering This book focuses on seismic design and concentrates specifically on seismic resistant steel structures Drawing o **Archives of Mechanics** ,2003 Food Webs John C. Moore, Peter C. de Ruiter, Kevin S. McCann, 2018 This book presents new approaches to studying food webs using practical and policy examples to demonstrate

Hyperbolic Problems: Theory, Numerics, Applications. Volume the theory behind ecosystem management decisions I Carlos Parés, Manuel J. Castro, Tomás Morales de Luna, María Luz Muñoz-Ruiz, 2024-05-27 The present volume contains a selection of papers from the XVIII International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2022 which was held on June 20 24 2022 in M laga Spain The goal of this series of conferences is to bring together scientists with interests in the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models The chapters in this volume correspond to some of the plenary lectures and to selected contributions related to theoretical aspects Robert Boyer, Yves Saillard, 2005-08-03 this constitutes the first global overview of regulation theory in English Boyer is internationally recognised as the person to write to and introduce a volume on RT the volume relates RT to institutional currents in Political Economy and will appeal to a broad range of researchers and academics Interdisciplinary appeal the doctrines here espoused have relevance across the social sciences The Devil in the Details Robert W. Batterman, 2001-11-29 Robert Batterman examines a form of scientific reasoning called asymptotic reasoning arguing that it has important consequences for our understanding of the scientific process as a whole He maintains that asymptotic reasoning is essential for explaining what physicists call universal behavior With clarity and rigor he simplifies complex questions about universal behavior demonstrating a profound understanding of the underlying structures that ground them This book introduces a valuable new method that is certain to fill explanatory gaps across disciplines Scientific and **Technical Aerospace Reports**, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information The Shock and Vibration Digest ,1988 Science Bertrand Zavidovigue, Giosu∏ Lo Bosco, 2012 The book Database gathers articles that were exposed during the seventh edition of the Workshop Data Analysis in Astronomy It illustrates a current trend to search for common expressions or models transcending usual disciplines possibly associated with some lack in the Mathematics required to model complex systems In that data analysis would be at the epicentre and a key facilitator of some current integrative phase of Science It is all devoted to the question of representation in Science whence its name IMAGe IN AcTION and main thrusts Part A Information data organization and communication Part B System structure and behaviour Part C Data System representation Such a classification makes concepts as complexity or dynamics appear like transverse notions a measure among others or a dimensional feature among others Part A broadly discusses a dialogue between experiments and information be information extracted from or brought to experiments The concept is fundamental in statistics and tailors to the emergence of collective behaviours Communication then asks for uncertainty considerations noise indeterminacy or approximation and its wider impact on the couple perception action Clustering being all about uncertainty handling data set representation appears not to be the only solution Introducing hierarchies with adapted

metrics a priori pre improving the data resolution are other methods in need of evaluation. The technology together with increasing semantics enables to involve synthetic data as simulation results for the multiplication of sources Part B plays with another couple important for complex systems state vs transition State first descriptions would characterize physics while transition first would fit biology That could stem from life producing dynamical systems in essence Uncertainty joining causality here geometry can bring answers stable patterns in the state space involve constraints from some dynamics consistency Stable patterns of activity characterize biological systems too In the living world the complexity i e a global measure on both states and transitions increases with consciousness this might be a principle of evolution Beside geometry or measures operators and topology have supporters for reporting on dynamical systems Eventually targeting universality the category theory of topological thermodynamics is proposed as a foundation of dynamical system understanding Part C details examples of actual data system relations in regards to explicit applications and experiments It shows how pure computer display and animation techniques link models and representations to reality in some concrete virtual manner Such techniques are inspired from artificial life with no connection to physical biological or physiological phenomena The Virtual Observatory is the second illustration of the evidence that simulation helps Science not only in giving access to more flexible parameter variability but also due to the associated data and method storing capabilities It fosters interoperability statistics on bulky corpuses efficient data mining possibly through the web etc in short a reuse of resources in general including novel ideas and competencies Other examples deal more classically with inverse modelling and reconstruction involving Bayesian techniques or chaos but also fractal and symmetry Energy Research Abstracts ,1982 Flow Processes in Faults and Shear Zones G. Ian Alsop, 2004 Faults and their deeper level equivalents shear zones are localized regions of intense deformation within the Earth They are recognized at all scales from micro to plate boundary and are important examples of the nature of heterogeneous deformation in natural rocks Faults and shear zones are significant as they profoundly influence the location architecture and evolution of a broad range of geological phenomenao The topography and bathymetry of the Earth s surface is marked by mountain belts and sedimentary basins that are controlled by faults and shear zoneso In addition faults and shear zones control fluid migration and transport including hydrothermal and hydrocarbon systems Once faults and shear zones are established they are often long lived features prone to multiple reactivation over very large time scales This collection of papers addresses lithospheric deformation and the rheology of shear zones together with processes of partitioning and the unravelling of fault and shear zone histories Discontinuous Phase Transitions In Condensed Matter: Symmetry Breaking In Bulk Martensite, Quasiperiodic And Low-dimensional Nanostructures Vladimir Dmitriev, 2023-01-19 Discontinuous first order phase transitions constitute the most fundamental and widespread type of structural transitions existing in Nature forming a large majority of the transitions found in elemental crystals alloys inorganic compounds minerals and complex fluids Nevertheless only a small part of them namely weakly discontinuous

transformations were considered by phenomenological theories leaving aside the most interesting from a theoretical point of view and the most important for application cases Discontinuous Phase Transitions in Condensed Matter introduces a density wave approach to phase transitions which results in a unified symmetry based model free theory of the weak crystallization of molecular mixtures to liquid crystalline mesophases strongly discontinuous crystallization from molten metals and alloys to conventional fully segregated crystals to aperiodic quasi crystalline structures Assembly of aperiodic closed virus capsids with non crystallographic symmetry also falls into the domain of applicability of the density wave approach The book also considers the applicability domains of the symmetry based approach in physics of low dimensional systems It includes comparisons of stability of different surface superstructures and metal monoatomic coverage structures on the surface of single crystalline substrates The example of the twisted graphene bilayer demonstrates how parametrization in the spirit of an advanced phenomenological approach can establish symmetry controlled and therefore model free links between geometrical parameters of the twisted bilayer structure and reconstruction of its Brillouin zone and energy bands

Nonlinear Dynamics of Structures, Systems and Devices Walter Lacarbonara, Balakumar Balachandran, Jun Ma, J. A. Tenreiro Machado, Gabor Stepan, 2020-01-29 This first of three volumes from the inaugural NODYCON held at the University of Rome in February of 2019 presents papers devoted to Nonlinear Dynamics of Structures Systems and Devices The collection features both well established streams of research as well as novel areas and emerging fields of investigation Topics in Volume I include multi scale dynamics coexistence of multiple time space scales large system dynamics dynamics of structures industrial machines equipment facilities e g cable transportation systems suspension bridges cranes vehicles nonlinear interactions parametric vibrations with single multi frequency excitations multiple external and autoparametric resonances in multi dof systems nonlinear system identification parametric nonparametric identification data driven identification experimental dynamics benchmark experiments experimental methods instrumentation techniques measurements in harsh environments experimental validation of nonlinear models wave propagation solitons kinks breathers solution methods for pdes Lie groups Hirota's method perturbation methods etc nonlinear waves in media granular materials porous materials materials with memory composite structures multi layer functionally graded thermal loading fluid structure interaction nonsmooth and retarded dynamics systems with impacts free play stick slip friction hysteresis nonlinear systems with time and or space delays stability of delay differential equations differential algebraic equations space time reduced order modeling enhanced discretization methods center manifold reduction nonlinear normal modes normal forms fractional order systems computational techniques efficient algorithms use of symbolic manipulators integration of symbolic manipulation and numerical methods use of parallel processors and multibody dynamics rigid and flexible multibody system dynamics impact and contact mechanics tire modeling railroad vehicle dynamics computational multibody dynamics The Aeronautical Journal, 1973

Phenomenological And Mathematical Modelling Of Structural Instabilities Book Review: Unveiling the Power of Words

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