

airframe, ground effect, vibration, acoustics and the vortex ring state. The interaction between the rotor aerodynamic forces and the structural behaviour of the aircraft forms the final part of this valuable chapter.

A short appendix is provided giving tables of the leading particulars of modern helicopters and conversion factors between units systems.

The author firmly believes that readers should be familiar with both Imperial and SI units – I agree. Each chapter has a selection of questions and a considerable list of pertinent reference material. The book is a heavyweight both intellectually and in weight.

It should be of much use to all personnel involved with rotorcraft and allied subject areas. I have been involved in helicopters for 37 years but this book will provide me with many hours of reading. There are always many things to learn and I will have my nose in a copy for a long while. Like all text books it is not cheap but it forms a very worthwhile purchase. It is very well printed and the diagrams and images are clear. The overall impression is very good indeed.

Dr S.J. Newman CEng, MRAeS

## Fracture and Damage of Composites

Edited by M. Guagliano and M.H. Aliabadi

WIT Press, Ashurst Lodge, Ashurst, Southampton, SO40 7AA, UK, 2006. 288pp. Illustrated. £97. ISBN 1-85312-669-1.

This is Volume Eight in a series of publications under the title *Advances in Fracture Mechanics*. Each volume in the series is a compilation of state of the art papers from leading researchers. The current volume, of nine chapters, focuses on fracture and damage in composite materials. Five chapters of the book rely heavily upon on numerical methods, particularly the Boundary Element Method which underpins the last four contributions.

The first chapter compares two methods of estimating the compressive strength of laminated composites. These are a piece-wise homogeneous media model and a continuum theory approach. The accuracy of the continuum approach is investigated for incompressible nonlinear materials undergoing large deformation biaxial compression.

The second chapter presents a micromechanical model of macroscopic crack propagation under stress corrosion cracking. The model is compared with experiment on compact tension specimens made from glass reinforced epoxy composite under constant load,

in a hydrochloric acid environment. Estimates for the times to failure of unidirectional and cross-ply composite laminates are presented.

The damage mechanisms in pultruded composite rods are investigated in the third chapter. Loading is both static and fatigue. Experiments are carried out on an E-glass polyester resin composite, in which the effect of the stress ratio and gripping conditions are investigated.

Experimental examination of fatigue damage in particulate metal matrix composites is presented in chapter 4. The material system is alumina reinforced 6061 aluminium alloy. A parameter, the total strain energy, is shown to correlate well with fatigue life of the composite under multi-axial loading.

The mechanical properties of woven fabric composites are modelled numerically in chapter 5 using the finite element method. A representative volume element is defined and the predicted stiffness response compared with experiment on plain and twill weave carbon-epoxy composites.

The last four chapters all use the Boundary Element Method. In chapter 6 the formulation for the elastic fracture mechanics of anisotropic composites subjected to static and dynamic loading is developed. An incremental crack growth analysis is compared with published results.

Chapter 7 is unique in the sense that it deals with functional rather than structural materials. The Boundary Element Method is developed for a piezoelectric composite with edge delamination. The elasto-electric states are obtained for a Poly Vinylidene Fluoride piezoelectric laminate under a wide range of loading conditions.

Chapter 8 develops the Boundary Element Method to the fracture mechanics of cracks with contact. The approach is applied to 0/90 laminates with delaminations and debonding cracks between the fibre and matrix. This chapter distinguishes itself by having an extensive bibliography of over 150 references.

The last chapter investigates the three-dimensional nature of cracks between bimaterial interfaces. Particular attention is given to the propagation of debonding cracks. Experimental results are presented for unidirectional glass-epoxy composites under transverse loading.

The book generally succeeds in its aim of providing the reader with an up to the moment reference on the most recent developments in the field, together with original research of the authors. As such, it provides a valuable reference to students embarking on research projects in the characterisation of damage in composite materials, particularly if they intend using the Boundary Element Method.

Dr John Morton CEng, FRAeS

## Highly Flexible Structures: Modeling, Computation and Experimentation

P.F. Pai

American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Suite 500, Reston, VA 20191-4344, USA. 2007. 742pp + diskette. Illustrated. \$89.95 (AIAA Members). \$129.95 (Non-Members). ISBN 978-1-56347-917-5.

There have been many books on the nonlinear analysis of structures and similar problem areas. The topic has until recently been largely an academic challenge, and most authors have been from the university sector. Unfortunately the emphasis has been on the sophisticated tools now available, many pioneered by applied mathematicians, and the consequent texts have often wallowed in mathematical jargon. Hence most have been ignored by industrial practitioners.

However the emergence of commercial software (such as ABAQUS and DYNA-3D etc.) has led to its use as a design tool, largely because of the power and cheapness of computers but also due to their user-friendliness. This has been aided by their robustness and interfacing with familiar CAD/CAE packages. The danger now is the use of codes in a 'black box' mode where the user may not understand why the structural behaviour does not converge or (even worse) converges to the wrong answer. A book on nonlinear analysis, bereft of jargon, and with many examples, is to be welcomed.

This book largely meets this specification. It is one in the AIAA Educational Series and therefore aims to be a teaching text, each chapter concluding with selected tutorial questions. The theme is specifically 'highly flexible structures' and most of the worked examples fall into this category. Examples are deployable antenna and 'snap-back' control booms for spacecraft (the Explorer satellite apparently had a 460m antenna!), helicopter main blades, high-altitude long-endurance UAVs, cable structures, membrane roofs, light helical springs etc.

There are 759 pages of which the first 227 are (quite rightly) devoted to fundamental structural mechanics, the effect of gross deformations, of material nonlinearities, and the classical range of solution procedures such as Newton-Raphson, modified Riks, Newmark and several explicit strategies, plus the author's favourite variation 'multiple shooting method.'

# **Mechanics And Control Of Large Flexible Structures** **Progress In Astronautics And Aeronautics Volume 129**

**RJ Alexander**



## **Mechanics And Control Of Large Flexible Structures Progress In Astronautics And Aeronautics Volume 129:**

Introduction to Dynamics and Control of Flexible Structures John L. Junkins, Youdan Kim, 1993      *Mechanics and Control of Large Flexible Structures* John L. Junkins, 1990      **Balanced Control of Flexible Structures** Wodek

Gawronski, 2006-04-10 Methods of structural control and dynamics are introduced in this book These include reduction of large structural models by balanced truncation placement of actuators and sensors for dynamic testing and control structural identification of the minimum order balanced representation balanced dissipative controller design balanced LQG and H controller designs with the closed form relationships between controller parameters and system performance and controller reduction methods that preserve the closed loop performance The book explores the unique properties of flexible structures to obtain efficient methods of dynamic analysis and controller design The presented methods of structural dynamics identification sensor actuator placement and passive LQG and H controller design have been checked both with simulations and industrial implementations      **Vibration Control of Active Structures** A. Preumont, 2006-04-11 My objective in

writing this book was to cross the bridge between the structural dynamics and control communities while providing an overview of the potential of SMART materials for sensing and actuating purposes in active vibration control I wanted to keep it relatively simple and focused on systems which worked This resulted in the following i I restricted the text to fundamental concepts and left aside most advanced ones i.e. robust control whose usefulness had not yet clearly been established for the application at hand ii I promoted the use of collocated actuator sensor pairs whose potential I thought was strongly underestimated by the control community iii I emphasized control laws with guaranteed stability for active damping the wide ranging applications of the IFF are particularly impressive iv I tried to explain why an accurate prediction of the transmission zeros usually called anti resonances by the structural dynamicists is so important in evaluating the performance of a control system v I emphasized the fact that the open loop zeros are more difficult to predict than the poles and that they could be strongly influenced by the model truncation high frequency dynamics or by local effects such as membrane strains in piezoelectric shells especially for nearly collocated distributed actuator sensor pairs this effect alone explains many disappointments in active control systems      Teleoperation and Robotics in Space Carl F. Ruoff, 1994      **Vibration**

**Control of Active Structures** André Preumont, 2018-02-10 This textbook is an introduction to the dynamics of active structures and to the feedback control of lightly damped flexible structures the emphasis is placed on basic issues and simple control strategies that work Now in its fourth edition more chapters have been added and comments and feedback from readers have been taken into account while at the same time the unique premise of bridging the gap between structure and control has remained Many examples covering a broad field of applications from bridges to satellites and telescopes and problems bring the subject to life and take the audience from theory to practice The book has 19 chapters dealing with some concepts in structural dynamics electromagnetic and piezoelectric transducers piezoelectric beam plate and truss passive

damping with piezoelectric transducers collocated versus non collocated control active damping with collocated systems vibration isolation state space approach analysis and synthesis in the frequency domain optimal control controllability and observability stability applications tendon control of cable structures active control of deformable mirrors for Adaptive Optics and large earth based and space telescopes and semi active control The book concludes with an exhaustive bibliography and index This book is intended for structural engineers who want to acquire some background in vibration control and for control engineers who are dealing with flexible structures It can be used as a textbook for a graduate course on vibration control or active structures A solutions manual is available through the publisher to teachers using this book as a textbook

*Multidisciplinary Design Optimization* Natalia M. Alexandrov, M. Yousuff Hussaini, 1997-01-01 Multidisciplinary design optimization MDO has recently emerged as a field of research and practice that brings together many previously disjointed disciplines and tools of engineering and mathematics MDO can be described as a technology environment or methodology for the design of complex coupled engineering systems such as aircraft automobiles and other mechanisms the behavior of which is determined by interacting subsystems Large Space Structures & Systems in the Space Station Era, 1990

**Computer-Aided Analysis of Rigid and Flexible Mechanical Systems** Manuel F.O. Seabra Pereira, Jorge A.C. Ambrósio, 2012-12-06 This book contains the edited version of the lectures presented at the NATO ADVANCED STUDY INSTITUTE on COMPUTER AIDED ANALYSIS OF RIGID AND FLEXIBLE MECHANICAL SYSTEMS held in Troia Portugal from the 27 June to 9 July 1993 and organized by the Instituto de Engenharia Mecânica Instituto Superior Técnico This ASI addressed the state of art in the field of multibody dynamics which is now a well developed subject with a great variety of formalisms methods and principles Ninety five participants from twenty countries representing academia industry government and research institutions attended this Institute This contributed greatly to the success of the Institute since it encouraged the interchange of experiences between leading scientists and young scholars and promoted discussions that helped to generate new ideas and to define directions of research and future developments The full program of the Institute included also contributed presentations made by participants where different topics have been explored Such topics include formulations and numerical aspects in rigid and flexible mechanical systems object oriented paradigms optimal design and synthesis robotics kinematics path planning control impact dynamics and several application oriented developments in weapon systems vehicles and crash worthiness These papers have been revised and will be published by Kluwer in a special issue of the Journal of Nonlinear Dynamics and in a forthcoming companion book This book brings together in a tutorial and review manner a comprehensive summary of current work and is therefore suitable for a wide range of interests

Dynamics and Control of Structures in Space II Cranfield Institute of Technology, 1993 Edited proceedings of the Second International Conference on title held at the Cranfield Institute of Technology UK in September 1993 to review dynamic behavior and control of rigid and flexible spacecraft The volume is divided into 12 sections flexible multi body dynamics

robotics antenna dynamics rigid multibody dynamics robust control system identification active control satellite dynamics smart structures design simulation and testing active constrained layer damping and tethered satellites No subject index Annotation copyright by Book News Inc Portland OR      **Large Space Structures and Systems in the Space Station Era** ,1991-12      **Spaceflight Mechanics 1993** Robert G. Melton,1993      **Dynamics of Mechanical Systems** Harold Josephs,Ronald Huston,2002-06-19 Mechanical systems are becoming increasingly sophisticated and continually require greater precision improved reliability and extended life To meet the demand for advanced mechanisms and systems present and future engineers must understand not only the fundamental mechanical components but also the principles of vibrations stability and bala      *Spaceflight Mechanics 2000* ,1994 Published for the American Astronautical Society AAS The August 1993 conference was hosted by the AAS and co sponsored by the American Institute of Aeronautics and Astronautics The proceedings cover topics including attitude determination and control TOPEX orbit determination and control orbit determination orbit transfer tethers mission analysis planetary Earth general trajectories navigation rendezvous attitude dynamics and control flexible body dynamics and control and orbit dynamics Additional papers from the conference are available on a microfiche supplement v 70 AAS Microfiche Series these are represented in the present volumes by an abstract with reference to the supplement No subject index Annotation copyright by Book News Inc Portland OR

*Guidance and Control 1993* Robert D. Culp,George Bickley,1993      *A Collection of Technical Papers* ,1992      *Journal of Aircraft* ,1999      *International Conference on Adaptive Structures and Technologies* ,1999      *COMBINED DESIGN OF STRUCTURES AND CONTROLLERS FOR OPTIMAL MANEUVERABILITY*. JER RICHARD. LING,1992 been developed to overcome the computational difficulties Numerical examples suggest that optimization of design can provide significant improvement of maneuverability and that it is possible to improve the fault tolerance substantially as well with relatively little loss in the primary objective      **The Shock and Vibration Digest** ,2003

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