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KEY=INTI - HESTER SCHMIDT

Vibration Problems in Structures Practical Guidelines *Birkhäuser Authors: Hugo Bachmann, Walter J. Ammann, Florian Deischl, Josef Eisenmann, Ingomar Floegl, Gerhard H. Hirsch, Günter K. Klein, Göran J. Lande, Oskar Mahrenholtz, Hans G. Natke, Hans Nussbaumer, Anthony J. Pretlove, Johann H. Rainer, Ernst-Ulrich Saemann, Lorenz Steinbeisser. Large structures such as factories, gymnasia, concert halls, bridges, towers, masts and chimneys can be detrimentally affected by vibrations. These vibrations can cause either serviceability problems, severely hampering the user's comfort, or safety problems. The aim of this book is to provide structural and civil engineers working in construction and environmental engineering with practical guidelines for counteracting vibration problems. Dynamic actions are considered from the following sources of vibration: - human body motions, - rotating, oscillating and impacting machines, - wind flow, - road traffic, railway traffic and construction work. The main section of the book presents tools that aid in decision-making and in deriving simple solutions to cases of frequently occurring "normal" vibration problems. Complexer problems and more advanced solutions are also considered. In all cases these guidelines should enable the engineer to decide on appropriate solutions expeditiously. The appendices of the book contain fundamentals essential to the main chapters.* **Dynamics and Control of Machines** *Springer Science & Business Media Basic models and concepts of machine dynamics and motion control are presented in the order of the principal steps of machine design. The machine is treated as a coupled dynamical system, including drive, mechanisms and controller, to reveal its behavior at different regimes through the interaction of its units under dynamic and processing loads. The main dynamic effects in machines are explained. The influence of component compliances on accuracy, stability and efficiency of the machines is analyzed. Methods for decreasing internal and external vibration activity of machines are described. The dynamic features of digital control are considered. Special attention is given to machines with intense dynamic behavior: resonant and hand-held percussion ones. Targeted to engineers as well as to lecturers and advanced students.* **Dynamics of Cyclic Machines** *Springer This book focuses on the methods of dynamic analysis and synthesis of machines, comprising of cyclic action mechanisms, such as linkages, cams, steppers, etc. It presents the modern methods of oscillation analysis in machines, including cyclic action mechanisms (linkage, cam, stepper, etc.). Thus, it builds a bridge between the classic theory of oscillations and its practical application in the dynamic problems for cyclic machines. The author take into account that, in the process of training engineers for jobs in engineering industries, producing cyclic machines, insufficient attention is paid, until now, to the problems of dynamic and especially to oscillations.* **Foundations in Neonatal and Pediatric Respiratory Care** *Jones & Bartlett Learning Comprehensive, yet student-friendly, Foundations in Neonatal and Pediatric Respiratory Care provides an accurate and easy to understand account of the field. Following the NBRC matrix, this text is a useful tool for students preparing for the certification exam. The authors have included learning objectives and discussion questions in the NBRC testing format for each chapter that will help students grasp key material and prepare for future study.* **Subsea Pipelines and Risers** *Elsevier Marine pipelines for the transportation of oil and gas have become a safe and reliable part of the expanding infrastructure put in place for the development of the valuable resources below the world's seas and oceans. The design of these pipelines is a relatively new technology and continues to evolve as the design of more cost effective pipelines becomes a priority and applications move into deeper waters and more hostile environments. This updated edition of a best selling title provides the reader with a scope and depth of detail related to the design of offshore pipelines and risers not seen before in a textbook format. With over 25years experience, Professor Yong Bai has been able to assimilate the essence of the applied mechanics aspects of offshore pipeline system design in a form of value to students and designers alike. It represents an excellent source of up to date practices and knowledge to help equip those who wish to be part of the exciting future of this industry.* **Bulletin d'information Hearings, Reports and Prints of the Senate Committee on Appropriations Department of the Army Department of Defense Appropriations for Fiscal Year 1970 Hearings Before the Subcommittee of the Committee on Appropriations, United States Senate, Ninety-first Congress, First Session, on H.R. 15090, an Act Making Appropriations for the Department of Defense for the Fiscal Year Ending June 30, 1970, and for Other Purposes Department of Defense Appropriations Department of Defense Appropriations for Fiscal Year 1970, Hearings Before ..., 91-1 Department of the Navy Hearings Pile Foundations 12 Reports** *And review of Part I of the Symposium on Pile Foundations / Martin S. Kapp -- Types of piles : their characteristics and general use / Bernard A. Grand -- Pile driving : hammers and driving methods / George J. Gendron -- Pile-driving formulas / Ernest T. Mosley, Tonis Raamot -- Pile-driving analysis by one-dimensional theory : state of the art / T.J. Hirsch (and others) -- Summary and review of Part II of the Symposium on Pile Foundations / G.A. Leonards -- Structural behavior of driven piling / Donald L. York -- Pile load tests including quick-load test method, conventional methods, and interpretations / Frank M. Fuller and Horace E. Hoy -- Bearing capacity of foundation piles : state of the art / Harrry M. Coyle,*

Ibrahim H, . Sulaiman -- Lateral load capacity of piles / M.T. Davisson -- Current construction practices in the installation of high-capacity piling / Ben C. Gerwick, Jr. -- Pile load test by impact driving / G.G. Noble, Frank Rausche. **Machinery Malfunction Diagnosis and Correction Vibration Analysis and Troubleshooting for the Process Industries** *Prentice Hall Specific, practical guidance for every individual involved with solving process machinery problems. The single source reference for explanations of fundamental machinery behavior, static and dynamic measurements, plus data acquisition, processing and interpretation. A variety of lateral and torsional analytical procedures, and physical tests are presented and discussed.* **The New Presence Advances in Swarm Intelligence 5th International Conference, ICSI 2014, Hefei, China, October 17-20, 2014, Proceedings, Part I** *Springer This book and its companion volume, LNCS vol. 8794 and 8795 constitute the proceedings of the 5th International Conference on Swarm Intelligence, ICSI 2014, held in Hefei, China in October 2014. The 107 revised full papers presented were carefully reviewed and selected from 198 submissions. The papers are organized in 18 cohesive sections, 3 special sessions and one competitive session covering all major topics of swarm intelligence research and development such as novel swarm-based search methods; novel optimization algorithm; particle swarm optimization; ant colony optimization for travelling salesman problem; artificial bee colony algorithms; artificial immune system; evolutionary algorithms; neural networks and fuzzy methods; hybrid methods; multi-objective optimization; multi-agent systems; evolutionary clustering algorithms; classification methods; GPU-based methods; scheduling and path planning; wireless sensor networks; power system optimization; swarm intelligence in image and video processing; applications of swarm intelligence to management problems; swarm intelligence for real-world application.* **Modelling Machine Emotions for Realizing Intelligence Foundations and Applications** *Springer Science & Business Media Emotion connects the thought to the body, which is a magnificent biological - vice for sensing and affecting the world. The thought controls the body through emotions. The body affects the thought through emotions. Through this mec- nism, the thought allows the agent to behave intelligently in the complex world filled with a huge amount of dynamic information. The emotion maps a flux of information into a space which the agent is familiar with, enabling her/him to associate ongoing events with past experiences which help to reduce complexity by providing with a nominal solution. Recent findings in brain science suggest that mirror neurons map visual signals into motor signals for the body. This mechanism might permit one to experience the emotion of the other agent just by feeling the motor signals caused by mirror neurons as a result of visual stimuli caused by the other agent's emotional beh- iors. In particular, it might play a significant role in invoking empathy in a social situation. It may not be hard to think about what might happen to emotion-less machines. The emotion-less machines may not be able to accumulate experiences to avoid serious failures. They may not be able to communicate with the humans in an empathetic way.* **HAZOP Guide to Best Practice : Guidelines to Best Practice for the Process and Chemical Industries** *IChemE These guidelines are intended to provide guidance on a specific technique developed for use in the chemical and process industries. This technique is HAZOP study - a detailed method for systematic examination of a well-defined process or operation, either planned or existing. ICI developed the HAZOP study method in the '60s and the CIA guide, published in 1977 encouraged development. Since then it has become, for many, the choice technique for hazard identification in new designs, processes and operations.* **Transactions - The Society of Naval Architects and Marine Engineers** *List of members in vols. 1-24, 38-54, 57.* **Applied Mechanics Reviews Foundation Vibration Analysis Using Simple Physical Models** *Prentice Hall This book provides simple physical models to represent the unbounded soil in time and frequency domain analysis. They do not supplant the more generally applicable rigorous methods, but rather supplement them. The physical models used consists of the following representations: cones based one-dimensional rod theory; lumped-parameter models with frequency-independent springs, dashpots, and masses; and prescribed wave patterns in the horizontal plane. The physical models thus offer a strength-of-materials approach to foundation dynamics.* **Thermodynamics and Gas Dynamics of the Stirling Cycle Machine** *Cambridge University Press This 1992 book provides a coherent and comprehensive treatment of the thermodynamics and gas dynamics of the practical Stirling cycle. Invented in 1816, the Stirling engine is the subject of worldwide research and development on account of unique qualities - silence, indifference to heat source, low level of emissions when burning conventional fuels and an ability to function in reverse as heat pump or refrigerator. The student of engineering will discover an instructure and illuminating case study revealing the interactions of basic disciplines. The researcher will find the groundwork prepared for various types of computer simulation, Those involved in the use and teaching of solution methods for unsteady gas dynamics problems will find a comprehensive treatment on nonlinear and linear wave approaches, for the Stirling machine provides an elegant example of the application of each. The book will be of use to all those involved in researching, designing or manufacturing Stirling prime movers, coolers and related regenerative thermal machines.* **Pile Foundations in Engineering Practice** *John Wiley & Sons This is a concise, systematic and complete treatment of the design and construction of pile foundations. Discusses pile behavior under various loadings and types of piles and their installation, including consideration of soil parameters. It provides step-by-step design procedures for piles subject to vertical loading and pullout, lateral, inclined and eccentric loads, or dynamic loads, and for piles in permafrost. Also describes load test procedures and their interpretation and buckling of long, slender piles with and without supported length. The closing chapter presents case histories of prediction and performance of piles and pile groups. Includes numerous solved problems.* **Petroleum Abstracts. Literature and Patents Dynamic Loss Modeling for Loss Minimizing Control of IPMSM Using DB-DTFC Not Operating in Voltage Or Current Limits** *Deadbeat - direct torque and flux control (DB-DTFC) provides the opportunity of achieving desired torque with minimum losses at each switching period. With DB-DTFC, dynamic loss minimization control can be achieved without compromising fast torque response. This thesis lays the foundation of a flux linkage-based dynamic machine loss model of IPMSMs that is integrated into DB-DTFC achieving dynamic torque and loss minimization control at each switching interval. A dynamic machine loss model as a function of Volt-sec selection at the switching period level has been developed. This model, which utilizes l-I relationship in place of the magnetic B-H relationship, has been evaluated and shown to accurately represent the losses in the machine for sinusoidal loading. This model is evaluated experimentally for different types of cyclical loading and driving cycles. The stator flux linkage needs to be accurately estimated to provide a precise loss model for dynamic loss minimization control. For this purpose, a reduced parameter sensitivity stator flux observer utilizing disturbance input decoupling (DID) has been developed so that even under varying or inaccurately estimated machine parameters, the stator flux linkage and torque can be accurately estimated.*

However, this DID stator flux observer is vulnerable to the terminal Volt-sec distortion due to the non-ideal inverter effect at very low speed operations. To mitigate this drawback, a high frequency injection (HFI) based parameter estimation method combined with recursive least squares (RLS) has been developed for accurate torque and flux estimation. The outcomes of this work are a rigorous documentation of the capabilities and limitations of dynamic loss models and methods that are used to provide precise torque and flux estimation for dynamic loss minimizing DB-DTFC. **SEE Directory of Awards Directory of Awards Technical Literature Abstracts Federal home loan bank board, Housing and home finance agency, National aeronautics and space administration, National aeronautics and space council, National science foundation, Office of science and technology Federal Home Loan Bank Board, Housing and Home Finance Agency, National Aeronautics and Space Administration, National Aeronautics and Space Council, National Science Foundation, Office of Science and Technology Resources in Education Grid and Cooperative Computing Second International Workshop, GCC 2003, Shanghai, China, December 7-10, 2003, Revised Papers, Part II** *Springer Grid and cooperative computing has emerged as a new frontier of information tech- logy. It aims to share and coordinate distributed and heterogeneous network resources forbetterperformanceandfunctionalitythatcanotherwisenotbeachieved.Thisvolume contains the papers presented at the 2nd International Workshop on Grid and Coope- tive Computing, GCC 2003, which was held in Shanghai, P.R. China, during December 7–10, 2003. GCC is designed to serve as a forum to present current and future work as well as to exchange research ideas among researchers, developers, practitioners, and usersinGridcomputing,Webservicesandcooperativecomputing,includingtheoryand applications. For this workshop, we received over 550 paper submissions from 22 countries and regions. All the papers were peer-reviewed in depth and qualitatively graded on their relevance, originality, signi?cance, presentation, and the overall appropriateness of their acceptance. Any concerns raised were discussed by the program committee. The or- nizing committee selected 176 papers for conference presentation (full papers) and 173 submissions for poster presentation (short papers).The papers included herein represent the forefront of research from China, USA, UK, Canada, Switzerland, Japan, Aust- lia, India, Korea, Singapore, Brazil, Norway, Greece, Iran, Turkey, Oman, Pakistan and other countries. More than 600 attendees participated in the technical section and the exhibition of the workshop.* **An Analytical Framework for Examining Investment in Agriculture Walking Machines An Introduction to Legged Robots** *Springer The first chapter of this book traces the history of the development of walking machines from the original ideas of man-amplifiers and military rough-ground transport to today's diverse academic and industrial research and development projects. It concludes with a brief account of research on other unusual methods of locomotion. The heart of the book is the next three chapters on the theory and engineering of legged robots. Chapter 2 presents the basics of land loco motion, going on to consider the energetics of legged movement and the description and classification of gaits. Chapter 3, dealing with the mechanics of legged vehicles, goes into leg number and arrangement, and discusses mechanical design and actuation methods. Chapter 4 deals with analysis and control, describing the aims of control theory and the methods of modelling and control which have been used for both highly dynamic robots and multi-legged machines. Having dealt with the theory of control it is necessary to discuss the computing system on which control is to be implemented. This is done in Chapter 5, which covers architectures, sensing, algorithms and pro gramming languages. Chapter 6 brings together the threads of the theory and engineering discussed in earlier chapters and summarizes the current walking machine research projects. Finally, the applications, both actual and potential, of legged locomotion are described. Introduction Research into legged machines is expanding rapidly. There are several reasons why this is happening at this particular time.* **Vibrational Mechanics Nonlinear Dynamic Effects, General Approach, Applications** *World Scientific "I think this new book has no real competitors. It should be of interest to university teachers and researchers in vibrations and mathematics, industrial vibration specialists and researchers, and university and company bookstores and libraries. It could even make up a textbook for one or more specialized courses in vibrations for graduate and postgraduate university classes".Jon Juel ThomsenTechnical University of Denmark"The monograph is highly descriptive and contains a great many of very vivid schematic diagrams demonstrating the impressive diversity of effects it reflects the author's superiority of understanding of the subject matter and his splendid teaching skills, and it is an outstanding, probably unrivalled work".ZAMM, 2001* **Vibrations in Rotating Machinery Proceedings of the International Conference on Vibrations in Rotating Machinery (Online, UK, October 2020) Machine Tools Production Systems 2 Design, Calculation and Metrological Assessment** *Springer The first part of this volume provides the user with assistance in the selection and design of important machine and frame components. It also provides help with machine design, calculation and optimization of these components in terms of their static, dynamic and thermoelastic behavior. This includes machine installation, hydraulic systems, transmissions, as well as industrial design and guidelines for machine design. The second part of this volume deals with the metrological investigation and assessment of the entire machine tool or its components with respect to the properties discussed in the first part of this volume. Following an overview of the basic principles of measurement and measuring devices, the procedure for measuring them is described. Acceptance of the machine using test workpieces and the interaction between the machine and the machining process are discussed in detail. The German Machine Tools and Manufacturing Systems Compendium has been completely revised. The previous five-volume series has been condensed into three volumes in the new ninth edition with color technical illustrations throughout. This first English edition is a translation of the German ninth edition.* **Playing for Change Music and Musicians in the Service of Social Movements** *Routledge Although music is known to be part of the great social movements that have rocked the world, its specific contribution to political struggle has rarely been closely analyzed. Is it truly the 'lifeblood' of movements, as some have declared, or merely the entertainment between the speeches? Drawing on interviews, case studies and musical and lyrical analysis, Rosenthal and Flacks offer a brilliant analysis and a wide-ranging look at the use of music in movements, in the US and elsewhere, over the past hundred years. From their interviews, the voices of Pete Seeger, Ani DiFranco, Tom Morello, Holly Near, and many others enliven this highly readable book.* **Modelling Machine Emotions for Realizing Intelligence Foundations and Applications** *Springer Emotion connects the thought to the body, which is a magnificent biological - vice for sensing and affecting the world. The thought controls the body through emotions. The body affects the thought through emotions. Through this mec- nism, the thought allows the agent to behave intelligently in the complex world filled with a huge amount of dynamic information. The emotion maps a flux of information into*

a space which the agent is familiar with, enabling her/him to associate ongoing events with past experiences which help to reduce complexity by providing with a nominal solution. Recent findings in brain science suggest that mirror neurons map visual signals into motor signals for the body. This mechanism might permit one to experience the emotion of the other agent just by feeling the motor signals caused by mirror neurons as a result of visual stimuli caused by the other agent's emotional beh- iors. In particular, it might play a significant role in invoking empathy in a social situation. It may not be hard to think about what might happen to emotion-less machines. The emotion-less machines may not be able to accumulate experiences to avoid serious failures. They may not be able to communicate with the humans in an empathetic way.