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Mastering Malware Analysis Springer Nature

Static analysis is a special case of dynamic analysis. The main reason for using static or pseudo-static analysis is the simplicity of the design and the analysis itself. Many structures such as buildings, bridges, dams, ships, airplanes, and more are studied by a dynamic analysis, which is a more complicated and time-consuming analysis compared to a static one; such structures studied in this way are safer and their behavior is closer to reality. Thanks to the important evolution of computer science, numerical methods, and mathematical models, we are boldly confronting the analysis of the most complex structures with huge dimensions, all this in a few hours in order to have an exact behavior of these structures closer to reality through the use of static dynamics and analysis. Structural Dynamics and Static Nonlinear Analysis From Theory to Application is concerned with the challenging subject of structural dynamics and the hydrodynamic principle as well as nonlinear static methods of analysis for seismic design of structures. The chapters are arranged into three parts. The first deals with single-degree of freedom (DOF) systems. The second part concerns systems with multiple degrees of freedom (DOF) with which one can create analytical and mathematical models of the most complex structures, passing through the hydrodynamic principle with an application in real cases. The last part sheds light on the principle of nonlinear static methods and its application in a real case. This book is ideal for academics, researchers, practicing structural engineers, and research students in the fields of civil and/or mechanical engineering along with practitioners interested in structural dynamics, static dynamics and analysis, and real-life applications.

Pressure Vessel Design Manual Springer Science & Business Media
Dynamic Analysis of Structures reflects the latest application of structural dynamics theory to produce more optimal and economical structural designs. Written by an author with over 37 years of researching, teaching and writing experience, this reference introduces complex structural dynamics concepts in a user-friendly manner. The author includes carefully worked-out examples which are solved utilizing more recent numerical methods. These examples pave the way to more accurately simulate the behavior of various types of structures. The essential topics covered include principles of structural dynamics applied to particles, rigid and deformable bodies, thus enabling the formulation of equations for the motion of any structure. Covers the tools and techniques needed to build realistic modeling of actual structures under dynamic loads Provides the methods to formulate the equations of motion of any structure, no matter how complex it is, once the dynamic model has been adopted Provides carefully worked-out examples that are solved using recent numerical methods Includes simple computer algorithms for the numerical solution of the equations of motion and respective code in FORTRAN and MATLAB

The Modern Security Operations Center Morgan & Claypool Publishers

This book constitutes the refereed proceedings of the 28th Argentine Congress on Computer Science, CACIC 2022, held in La Rioja, Argentina, during October 3–6, 2022. The 20 full papers included in this book were carefully reviewed and selected from 184 submissions. They were organized in topical sections as follows: Agents and Systems; Technology Applied to Education; Graphic Computation, Images and Visualization; Software Engineering; Databases and Data Mining; Hardware Architectures, Networks, and Operating Systems; Innovation in Software Systems; Signal Processing and Real-Time Systems; Innovation in Computer Science Education; and Digital Governance and Smart Cities.

Structural Dynamics Springer Nature

Master malware analysis to protect your systems from getting infected Key FeaturesSet up and model solutions, investigate malware, and prevent it from occurring in futureLearn core concepts of dynamic malware analysis, memory forensics, decryption, and much moreA practical guide to developing

innovative solutions to numerous malware incidentsBook Description With the ever-growing proliferation of technology, the risk of encountering malicious code or malware has also increased. Malware analysis has become one of the most trending topics in businesses in recent years due to multiple prominent ransomware attacks. Mastering Malware Analysis explains the universal patterns behind different malicious software types and how to analyze them using a variety of approaches. You will learn how to examine malware code and determine the damage it can possibly cause to your systems to ensure that it won't propagate any further. Moving forward, you will cover all aspects of malware analysis for the Windows platform in detail. Next, you will get to grips with obfuscation and anti-disassembly, anti-debugging, as well as anti-virtual machine techniques. This book will help you deal with modern cross-platform malware. Throughout the course of this book, you will explore real-world examples of static and dynamic malware analysis, unpacking and decrypting, and rootkit detection. Finally, this book will help you strengthen your defenses and prevent malware breaches for IoT devices and mobile platforms. By the end of this book, you will have learned to effectively analyze, investigate, and build innovative solutions to handle any malware incidents. What you will learnExplore widely used assembly languages to strengthen your reverse-engineering skillsMaster different executable file formats, programming languages, and relevant APIs used by attackersPerform static and dynamic analysis for multiple platforms and file typesGet to grips with handling sophisticated malware casesUnderstand real advanced attacks, covering all stages from infiltration to hacking the systemLearn to bypass anti-reverse engineering techniquesWho this book is for If you are an IT security administrator, forensic analyst, or malware researcher looking to secure against malicious software or investigate malicious code, this book is for you. Prior programming experience and a fair understanding of malware attacks and investigation is expected.

Computer Techniques in Vibration Springer

Written by Parviz Nikraves, one of the world's best known experts in multibody dynamics, Planar Multibody Dynamics: Formulation, Programming, and Applications enhances the quality and ease of design education with extensive use of the latest computerized design tools combined with coverage of classical design and dynamics of machinery princ

Partitioning Strategy for Efficient Nonlinear Finite Element Dynamic Analysis on Multiprocessor Computers CRC Press

Cybersecurity has been gaining serious attention and recently has become an important topic of concern for organizations, government institutions, and largely for people interacting with digital online systems. As many individual and organizational activities continue to grow and are conducted in the digital environment, new vulnerabilities have arisen which have led to cybersecurity threats. The nature, source, reasons, and sophistication for cyberattacks are not clearly known or understood, and many times invisible cyber attackers are never traced or can never be found. Cyberattacks can only be known once the attack and the destruction have already taken place long after the attackers have left. Cybersecurity for computer systems has increasingly become important because the government, military, corporate, financial, critical infrastructure, and medical organizations rely heavily on digital network systems, which process and store large volumes of data on computer devices that are exchanged on the internet, and they are vulnerable to "continuous" cyberattacks. As cybersecurity has become a global concern, it needs to be clearly understood, and innovative solutions are required. The Handbook of Research on Advancing Cybersecurity for Digital Transformation looks deeper into issues, problems, and innovative solutions and strategies that are linked to cybersecurity. This book will provide important knowledge that can impact the improvement of cybersecurity, which can add value in terms of innovation to solving cybersecurity threats. The chapters cover cybersecurity challenges, technologies, and solutions in the context of different industries and different types of threats. This book is ideal for cybersecurity researchers, professionals, scientists, scholars, and managers, as well as practitioners, stakeholders, researchers, academicians, and students interested in the latest advancements in cybersecurity for digital transformation.

Dynamic Analysis User's Guide IGI Global

Model-driven software development drastically alters the software development process, which is characterized by a high degree of innovation and productivity. Emerging Technologies for the Evolution and Maintenance of Software Models contains original academic work about current research and research projects related to all aspects

affecting the maintenance, evolution, and reengineering (MER), as well as long-term management, of software models. The mission of this book is to present a comprehensive and central overview of new and emerging trends in software model research and to provide concrete results from ongoing developments in the field.

Elements of Earthquake Engineering and Structural Dynamics Springer Nature

This volume constitutes the refereed proceedings of the 28th European Conference on Systems, Software and Services Process Improvement, EuroSPI 2021, held in Krems, Austria, in September 2021*. The 42 full papers and 9 short papers presented were carefully reviewed and selected from 100 submissions. The volume presents core research contributions and selected industrial contributions. Core research contributions: SPI and emerging software and systems engineering paradigms; SPI and team skills and diversity; SPI and recent innovations; SPI and agile; SPI and standards and safety and security norms; SPI and good/bad SPI practices in improvement; SPI and functional safety and cybersecurity; digitalisation of industry, infrastructure and e-mobility. Selected industrial contributions: SPI and emerging software and systems engineering paradigms; SPI and recent innovations; SPI and agile; SPI and standards and safety and security norms; SPI and good/bad SPI practices in improvement; SPI and functional safety and cybersecurity; digitalisation of industry, infrastructure and e-mobility; virtual reality. *The conference was partially held virtually due to the COVID-19 pandemic.

Business Enterprise, Process, and Technology Management: Models and Applications John Wiley & Sons

Understanding and controlling vibration is critical for reducing noise, improving work environments and product quality, and increasing the useful life of industrial machinery and other mechanical systems. Computer-based modeling and analytical tools provide fast, accurate, and efficient means of designing and controlling a system for improved vibr

Planar Multibody Dynamics Addison-Wesley Professional

This book constitutes the best papers selection from the proceedings of the 13th International Conference on Intelligent Software Methodologies, Tools and Techniques, SoMeT 2014, held in Langkawi, Malaysia, in September 2014. The 27 full papers presented were carefully reviewed, thoroughly revised or enlarged, and selected as best papers from the 79 published proceedings papers, which had originally been selected from 192 submissions. The papers are organized in topical sections on artificial intelligence techniques in software engineering; requirement engineering, high-assurance system; intelligent software systems design; creative and arts in interactive software design; software methodologies for reliable software design; software quality and assessment for business enterprise; software analysis and performance model; software applications systems. Dynamic Analysis and Control System Design of Automatic Transmissions Packt Publishing Ltd

While the basic working principle and the mechanical construction of automatic transmissions has not changed significantly, increased requirements for performance, fuel economy, and drivability, as well as the increasing number of gears has made it more challenging to design the systems that control modern automatic transmissions. New types of transmissions—continuously variable transmissions (CVT), dual clutch transmissions (DCT), and hybrid powertrains—have presented added challenges. Gear shifting in today's automatic transmissions is a dynamic process that involves synchronized torque transfer from one clutch to another, smooth engine speed change, engine torque management, and minimization of output torque disturbance. Dynamic analysis helps to understand gear shifting mechanics and supports creation of the best design for gear shift control systems in passenger cars, trucks, buses, and commercial vehicles. Based on the authors' graduate-level teaching material, this well-illustrated book relays how the fundamental principles of hydraulics and control systems are applied to today's automatic transmissions. It opens with coverage of basic automatic transmission mechanics and then details dynamics and controls associated with modern automatic transmissions. Topics covered include: gear shifting mechanics and controls, dynamic models of planetary automatic transmissions, design of hydraulic control systems, learning algorithms for achieving consistent shift quality, torque converter clutch controls, centrifugal pendulum vibration absorbers, friction launch controls, shift

scheduling and integrated powertrain controls, continuously variable transmission ratio controls, dual-clutch transmission controls, and more. The book includes many equations and clearly explained examples. Sample Simulink models of various transmission mechanical, hydraulic and control subsystems are also provided. Chapter Two, which covers planetary gear automatic transmissions, includes homework questions, making it ideal for classroom use. In addition to students, new engineers will find the book helpful because it provides the basics of transmission dynamics and control. More experienced engineers will appreciate the theoretical discussions that will help elevate the reader's knowledge. Although many automatic transmission-related books have been published, most focus on mechanical construction, operation principles, and control hardware. None tie the dynamic analysis, control system design, and analytic investigation of the mechanical, hydraulic, and electronic controls as does this book.

Cuckoo Malware Analysis MSC Software

* Each chapter is written by one or more invited world-renowned experts * Information provided in handy reference tables and design charts * Numerous examples demonstrate how the theory outlined in the book is applied in the design of structures Tremendous strides have been made in the last decades in the advancement of offshore exploration and production of minerals. This book fills the need for a practical reference work for the state-of-the-art in offshore engineering. All the basic background material and its application in offshore engineering is covered. Particular emphasis is placed in the application of the theory to practical problems. It includes the practical aspects of the offshore structures with handy design guides, simple description of the various components of the offshore engineering and their functions. The primary purpose of the book is to provide the important practical aspects of offshore engineering without going into the nitty-gritty of the actual detailed design. · Provides all the important practical aspects of ocean engineering without going into the 'nitty-gritty' of actual design details · Simple to use - with handy design guides, references tables and charts · Numerous examples demonstrate how theory is applied in the design of structures

Systems, Software and Services Process Improvement WIT Press

Risky Behaviours in the Top 400 iOS and Android Apps is a concise overview of the security threats posed by the top apps in iOS and Android apps. These apps are ubiquitous on a phones and other mobile devices, and are vulnerable to a wide range digital systems attacks, This brief volume provides security professionals and network systems administrators a much-needed dive into the most current threats, detection techniques, and defences for these attacks. An overview of security threats posed by iOS and Android apps. Discusses detection techniques and defenses for these attacks

Geo Environmental Design Practice in Fly Ash Disposal & Utilization CRC Press

The Industry Standard, Vendor-Neutral Guide to Managing SOCs and Delivering SOC Services This completely new, vendor-neutral guide brings together all the knowledge you need to build, maintain, and operate a modern Security Operations Center (SOC) and deliver security services as efficiently and cost-effectively as possible. Leading security architect Joseph Muniz helps you assess current capabilities, align your SOC to your business, and plan a new SOC or evolve an existing one. He covers people, process, and technology; explores each key service handled by mature SOCs; and offers expert guidance for managing risk, vulnerabilities, and compliance. Throughout, hands-on examples show how advanced red and blue teams execute and defend against real-world exploits using tools like Kali Linux and Ansible. Muniz concludes by previewing the future of SOCs, including Secure Access Service Edge (SASE) cloud technologies and increasingly sophisticated automation. This guide will be indispensable for everyone responsible for delivering security services—managers and cybersecurity professionals alike. * Address core business and operational requirements, including sponsorship, management, policies, procedures, workspaces, staffing, and technology * Identify, recruit, interview, onboard, and grow an outstanding SOC team * Thoughtfully decide what to outsource and what to insource * Collect, centralize, and use both internal data and external threat intelligence * Quickly and efficiently hunt threats, respond to incidents, and investigate artifacts * Reduce future risk by improving incident recovery and vulnerability management * Apply orchestration and automation effectively, without just throwing money at them * Position yourself today for emerging SOC technologies

Essentials of Applied Dynamic Analysis CRC Press

This book is a step-by-step, practical tutorial for analyzing and detecting malware and performing digital investigations. This book features clear and concise guidance in an easily accessible format. Cuckoo Malware Analysis is great for anyone who wants to analyze malware through programming,

networking, disassembling, forensics, and virtualization. Whether you are new to malware analysis or have some experience, this book will help you get started with Cuckoo Sandbox so you can start analysing malware effectively and efficiently.

Dynamics of Multibody Systems CRC Press

Sensors and Instrumentation, Aircraft/Aerospace and Energy Harvesting, Volume 7: Proceedings of the 40th IMAC, A Conference and Exposition on Structural Dynamics, 2020, the seventh 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 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 Research Reporting Series IGI Global

Malware Data Science explains how to identify, analyze, and classify large-scale malware using machine learning and data visualization. Security has become a "big data" problem. The growth rate of malware has accelerated to tens of millions of new files per year while our networks generate an ever-larger flood of security-relevant data each day. In order to defend against these advanced attacks, you'll need to know how to think like a data scientist. In Malware Data Science, security data scientist Joshua Saxe introduces machine learning, statistics, social network analysis, and data visualization, and shows you how to apply these methods to malware detection and analysis. You'll learn how to: - Analyze malware using static analysis - Observe malware behavior using dynamic analysis - Identify adversary groups through shared code analysis - Catch 0-day vulnerabilities by building your own machine learning detector - Measure malware detector accuracy - Identify malware campaigns, trends, and relationships through data visualization Whether you're a malware analyst looking to add skills to your existing arsenal, or a data scientist interested in attack detection and threat intelligence, Malware Data Science will help you stay ahead of the curve.

Finite Element Analysis Step by Step with Algor Allied Publishers

Readings in Artificial Intelligence and Software Engineering covers the main techniques and application of artificial intelligence and software engineering. The ultimate goal of artificial intelligence applied to software engineering is automatic programming. Automatic programming would allow a user to simply say what is wanted and have a program produced completely automatically. This book is organized into 11 parts encompassing 34 chapters that specifically tackle the topics of deductive synthesis, program transformations, program verification, and programming tutors. The opening parts provide an introduction to the key ideas to the deductive approach, namely the correspondence between theorems and specifications and between constructive proofs and programs. These parts also describes automatic theorem provers whose development has been designed for the programming domain. The subsequent parts present generalized program transformation systems, the problems involved in using natural language input, the features of very high level languages, and the advantages of the programming by example system. Other parts explore the intelligent assistant approach and the significance and relation of programming knowledge in other programming system. The concluding parts focus on the features of the domain knowledge system and the artificial intelligence programming. Software engineers and designers and computer programmers, as well as researchers in the field of artificial intelligence will find this book invaluable.

Practical Malware Analysis Springer Science & Business Media

"In order to reduce the seismic risk facing many densely populated regions worldwide, including Canada and the United States, modern earthquake engineering should be more widely applied. But current literature on earthquake engineering may be difficult to grasp for structural engineers who are untrained in seismic design. In addition no single resource addressed seismic design practices in both Canada and the United States until now. Elements of Earthquake Engineering and Structural Dynamics was written to fill the gap. It presents the key elements of earthquake engineering and structural dynamics at an introductory level and gives readers the basic knowledge they need to apply the seismic provisions contained in Canadian and American building codes."--Résumé de l'éditeur.

Analysis and Design of Marine Structures V Presses inter Polytechnique Mechanical engineering, an engineering discipline born of the needs of the industrial revolution, is once again asked to do its substantial share in the call for industrial renewal. The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions, among others. The Mechanical Engineering Series features graduate texts and research monographs intended to address the need for information in contemporary areas

of mechanical engineering. The series is conceived as a comprehensive one that will cover a broad range of concentrations important to mechanical engineering graduate education and research. We are fortunate to have a distinguished roster of consulting editors, each an expert in one of the areas of concentration. The names of the consulting editors are listed on the front page of the volume. The areas of concentration are applied mechanics, biomechanics, computational mechanics, dynamic systems and control, energetics, mechanics of material, processing, thermal science, and tribology. Professor Leckie, the consulting editor for applied mechanics, and I are pleased to present this volume of the series: Kinematic and Dynamic Simulation of Multibody Systems: The Real-Time Challenge by Professors Garcia de Jalón and Bayo. The selection of this volume underscores again the interest of the Mechanical Engineering Series to provide our readers with topical monographs as well as graduate texts. Austin Texas Frederick F. Ling v The first author dedicates this book to the memory of Prof F. Tegerizo (t 1988), who introduced him to kinematics.