Test Ingegneria Polito Simulazione

Bibliografia nazionale italiana **Bibliografia nazionale italiana. Tesi di dottorato** Molding Simulation: Theory and Practice **Probability Essentials** *Atti del XIV Convegno Nazionale del Gruppo Italiano Frattura* Advances on Mechanics, Design Engineering and Manufacturing II Mathematical Analysis I **The Science of Vehicle Dynamics** Bayesian Networks **Principles of Forensic Engineering Applied to Industrial Accidents Mechatronic Modeling of Real-Time Wheel-Rail Contact Interacting Multiagent Systems Color and Colorimetry. Multidisciplinary Contributions Neuromuscular System Engineering Computational Models for Polydisperse Particulate and Multiphase Systems** *Engineering Problems* **Iterative Methods for Solving Linear Systems Groundwater Engineering** *Passive Macromodeling* **Applied Thermodynamics and Heat Transfer Linear Control System Analysis and Design with MATLAB®, Sixth Edition** *The Nature and Purpose of Accounting* **Exercises on Thermal and Hydraulic Machines** *Numerical Models for Differential Problems Introduction to Measure Theory and Functional Analysis Fluid Fuel Reactors* **Superuse The Surfboard Book** *Digital Skills and Life-long Learning: Digital Learning as a New Insight of Enhanced Learning by the Innovative Approach Joining Technology and Cognition* Digital Twin Driven Smart Manufacturing Mathematical Methods in Engineering **Doc Italia** *Optimal Learning* **Oil and Gas Wells** *High-Performance Computing and Networking Design Tools and Methods in Industrial Engineering II* **Understanding Policy Decisions** *Optical Fiber Sensors*

Uncertainty Quantification in Computational Fluid Dynamics MoMoWo

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Bayesian Networks Feb 21 2022 Bayesian Networks: With Examples in R, Second Edition introduces Bayesian networks using a hands-on approach. Simple yet meaningful examples illustrate each step of the modelling process and discuss side by side the underlying theory and its application using R code. The examples start from the simplest notions and gradually increase in complexity. In particular, this new edition contains significant new material on topics from modern machine-learning practice: dynamic networks, networks with heterogeneous variables, and model validation. The first three chapters explain the whole process of Bayesian network modelling, from structure learning to parameter learning to inference. These chapters cover discrete, Gaussian, and conditional Gaussian

Bayesian networks. The following two chapters delve into dynamic networks (to model temporal data) and into networks including arbitrary random variables (using Stan). The book then gives a concise but rigorous treatment of the fundamentals of Bayesian networks and offers an introduction to causal Bayesian networks. It also presents an overview of R packages and other software implementing Bayesian networks. The final chapter evaluates two real-world examples: a landmark causal protein-signalling network published in Science and a probabilistic graphical model for predicting the composition of different body parts. Covering theoretical and practical aspects of Bayesian networks, this book provides you with an introductory overview of the field. It gives you a clear, practical understanding of the key points behind this modelling approach and, at the same time, it makes you familiar with the most relevant packages used to implement real-world analyses in R. The examples covered in the book span several application fields, data-driven models and expert systems, probabilistic and causal perspectives, thus giving you a starting point to work in a variety of scenarios. Online supplementary materials include the data sets and the code used in the book, which will all be made available from https://www.bnlearn.com/book-crc-2ed/

Design Tools and Methods in Industrial Engineering II Oct 27 2019 This book gathers original papers reporting on innovative methods and tools in design, modelling, simulation and optimization, and their applications in engineering design, manufacturing and other relevant industrial sectors. Topics span from advances in geometric modelling, applications of virtual reality, innovative strategies for product development and additive manufacturing, human factors and user-centered design, engineering design education and applications of engineering design methods in medical rehabilitation and cultural heritage. Chapters are based on contributions to the Second International Conference on Design Tools and Methods in Industrial Engineering, ADM 2021, held on September 9–10, 2021, in Rome, Italy,

and organized by the Italian Association of Design Methods and Tools for Industrial Engineering, and Dipartimento di Ingegneria Meccanica e Aerospaziale of Sapienza Università di Roma, Italy. All in all, this book provides academics and professionals with a timely overview and extensive information on trends and technologies in industrial design and manufacturing.

Principles of Forensic Engineering Applied to Industrial Accidents Jan 23 2022 An introductory text on the investigation of industrial accidents Forensic engineering should be seen as a rigorous approach to the discovery of root causes that lead to an accident or near-miss. The approach should be suitable to identify both the immediate causes as well as the underlying factors that affected, amplified, or modified the events in terms of consequences, evolution, dynamics, etc., as well as the contribution of an eventual "human error". This book is a concise and introductory volume to the forensic engineering discipline which helps the reader to recognize the link among those important, very specialized aspects of the same problem in the global strategy of learning from accidents (or near-misses). The reader will benefit from a single point of access to this very large, technical literature that can be only correctly understood with the right terms, definitions, and links in mind. Keywords: Presents simple (real) cases, as well as giving an overview of more complex ones, each of them investigated within the same framework; Gives the readers the bibliography to access more in-depth specific aspects; Offers an overview of the most commonly used methodologies and techniques to investigate accidents, including the evidence that should be collected to define the cause, dynamics and responsibilities of an industrial accident, as well as the most appropriate methods to collect and preserve the evidence through an appropriate chain of security. Principles of Forensic Engineering Applied to Industrial Accidents is essential reading for researchers and practitioners in forensic engineering, as well as graduate students in forensic engineering departments and other professionals.

Optical Fiber Sensors Aug 25 2019 Proceedings of the NATO Advanced Study Institute, Erice, Italy, May 10-20, 1986

Probability Essentials Jul 29 2022 This introduction can be used, at the beginning graduate level, for a one-semester course on probability theory or for self-direction without benefit of a formal course; the measure theory needed is developed in the text. It will also be useful for students and teachers in related areas such as finance theory, electrical engineering, and operations research. The text covers the essentials in a directed and lean way with 28 short chapters, and assumes only an undergraduate background in mathematics. Readers are taken right up to a knowledge of the basics of Martingale Theory, and the interested student will be ready to continue with the study of more advanced topics, such as Brownian Motion and Ito Calculus, or Statistical Inference.

Interacting Multiagent Systems Nov 20 2021 Mathematical modelling of systems constituted by many agents using kinetic theory is a new tool that has proved effective in predicting the emergence of collective behaviours and self-organization. This idea has been applied by the authors to various problems which range from sociology to economics and life sciences.

Bibliografia nazionale italiana. Tesi di dottorato Sep 30 2022

Exercises on Thermal and Hydraulic Machines Dec 10 2020

Atti del XIV Convegno Nazionale del Gruppo Italiano Frattura Jun 27 2022

The Science of Vehicle Dynamics Mar 25 2022 This textbook covers handling and performance of both road and race cars. Mathematical models of vehicles are developed always paying attention to state the relevant assumptions and to provide explanations for each step. This innovative approach provides a deep, yet simple, analysis of the dynamics of vehicles. The reader will soon achieve a clear understanding of the subject, which will be of great help both in dealing with the challenges of

designing and testing new vehicles and in tackling new research topics. The book deals with several relevant topics in vehicle dynamics that are not discussed elsewhere and this new edition includes thoroughly revised chapters, with new developments, and many worked exercises. Praise for the previous edition: Great book! It has changed drastically our approach on many topics. We are now using part of its theory on a daily basis to constantly improve ride and handling performances. --- Antonino Pizzuto, Head of Chassis Development Group at Hyundai Motor Europe Technical Center Astonishingly good! Everything is described in a very compelling and complete way. Some parts use a different approach than other books. --- Andrea Quintarelli, Automotive Engineer

Bibliografia nazionale italiana Nov 01 2022

Applied Thermodynamics and Heat Transfer Mar 13 2021 Bearing in mind the large relative significance of problems involved in the removal of heat from the nuclear reactors and its conversion into other types of energy, the basic information on thermodynamics and heat transfer are treated. (Author).

Neuromuscular System Engineering Sep 18 2021

Mechatronic Modeling of Real-Time Wheel-Rail Contact Dec 22 2021 Real-time simulations of the behaviour of a rail vehicle require realistic solutions of the wheel-rail contact problem which can work in a real-time mode. Examples of such solutions for the online mode have been well known and are implemented within standard and commercial tools for the simulation codes for rail vehicle dynamics. This book is the result of the research activities carried out by the Railway Technology Lab of the Department of Mechanical and Aerospace Engineering at Politecnico di Torino. This book presents work on the project for the development of a real-time wheel-rail contact model and provides the simulation results obtained with dSpace real-time hardware. Besides this, the implementation of the

contact model for the development of a real-time model for the complex mechatronic system of a scaled test rig is presented in this book and may be useful for the further validation of the real-time contact model with experiments on a full scale test rig.

Color and Colorimetry. Multidisciplinary Contributions Oct 20 2021

Uncertainty Quantification in Computational Fluid Dynamics Jul 25 2019 Fluid flows are characterized by uncertain inputs such as random initial data, material and flux coefficients, and boundary conditions. The current volume addresses the pertinent issue of efficiently computing the flow uncertainty, given this initial randomness. It collects seven original review articles that cover improved versions of the Monte Carlo method (the so-called multi-level Monte Carlo method (MLMC)), moment-based stochastic Galerkin methods and modified versions of the stochastic collocation methods that use adaptive stencil selection of the ENO-WENO type in both physical and stochastic space. The methods are also complemented by concrete applications such as flows around aerofoils and rockets, problems of aeroelasticity (fluid-structure interactions), and shallow water flows for propagating water waves. The wealth of numerical examples provide evidence on the suitability of each proposed method as well as comparisons of different approaches.

Doc Italia Mar 01 2020

MoMoWo Jun 23 2019

Numerical Models for Differential Problems Nov 08 2020 In this text, we introduce the basic concepts for the numerical modelling of partial differential equations. We consider the classical elliptic, parabolic and hyperbolic linear equations, but also the diffusion, transport, and Navier-Stokes equations, as well as equations representing conservation laws, saddle-point problems and optimal control problems. Furthermore, we provide numerous physical examples which underline such

equations. We then analyze numerical solution methods based on finite elements, finite differences, finite volumes, spectral methods and domain decomposition methods, and reduced basis methods. In particular, we discuss the algorithmic and computer implementation aspects and provide a number of easy-to-use programs. The text does not require any previous advanced mathematical knowledge of partial differential equations: the absolutely essential concepts are reported in a preliminary chapter. It is therefore suitable for students of bachelor and master courses in scientific disciplines, and recommendable to those researchers in the academic and extra-academic domain who want to approach this interesting branch of applied mathematics.

Passive Macromodeling Apr 13 2021 Offers an overview of state of the art passive macromodeling techniques with an emphasis on black-box approaches This book offers coverage of developments in linear macromodeling, with a focus on effective, proven methods. After starting with a definition of the fundamental properties that must characterize models of physical systems, the authors discuss several prominent passive macromodeling algorithms for lumped and distributed systems and compare them under accuracy, efficiency, and robustness standpoints. The book includes chapters with standard background material (such as linear time-invariant circuits and systems, basic discretization of field equations, state-space systems), as well as appendices collecting basic facts from linear algebra, optimization templates, and signals and transforms. The text also covers more technical and advanced topics, intended for the specialist, which may be skipped at first reading. Provides coverage of black-box passive macromodeling, an approach developed by the authors Elaborates on main concepts and results in a mathematically precise way using easy-to-understand language Illustrates macromodeling concepts through dedicated examples Includes a comprehensive set of end-of-chapter problems and exercises Passive Macromodeling: Theory and Applications serves as a reference for senior or

graduate level courses in electrical engineering programs, and to engineers in the fields of numerical modeling, simulation, design, and optimization of electrical/electronic systems. Stefano Grivet-Talocia, PhD, is an Associate Professor of Circuit Theory at the Politecnico di Torino in Turin, Italy, and President of IdemWorks. Dr. Grivet-Talocia is author of over 150 technical papers published in international journals and conference proceedings. He invented several algorithms in the area of passive macromodeling, making them available through IdemWorks. Bjørn Gustavsen, PhD, is a Chief Research Scientist in Energy Systems at SINTEF Energy Research in Trondheim, Norway. More than ten years ago, Dr. Gustavsen developed the original version of the vector fitting method with Prof. Semlyen at the University of Toronto. The vector fitting method is one of the most widespread approaches for model extraction. Dr. Gustavsen is also an IEEE fellow.

The Nature and Purpose of Accounting Jan 11 2021

The Surfboard Book Jul 05 2020 How Design Drives Performance Have you ever wondered how changing design will effect the performance of a surfboard, wanted to really understand what your shaper, surf shop or mates are talking about when they discuss bottom curve or rocker, or more importantly why a particular surfboard goes really well or struggles to perform in some situations? The Surfboard Book includes advice stories and design details from some of the most experienced and credible subject experts in the history of the surfboard in Simon Anderson, Dick Brewer, Steve Lis and Bob McTavish: each are known not only as surfboard shapers and designers but as innovators with a combined design experience approaching 200 years. The Surfboard Book explains: elements of surfboard shape and their effects on performance construction types: from traditional to modern sandwich construction important material properties including environmental issues basic types or classes of surfboard and how they perform how to go about choosing or specifying your next surfboard

Linear Control System Analysis and Design with MATLAB®, Sixth Edition Feb 09 2021 Thoroughly classroom-tested and proven to be a valuable self-study companion, Linear Control System Analysis and Design: Sixth Edition provides an intensive overview of modern control theory and conventional control system design using in-depth explanations, diagrams, calculations, and tables. Keeping mathematics to a minimum, the book is designed with the undergraduate in mind, first building a foundation, then bridging the gap between control theory and its real-world application. Computer-aided design accuracy checks (CADAC) are used throughout the text to enhance computer literacy. Each CADAC uses fundamental concepts to ensure the viability of a computer solution. Completely updated and packed with student-friendly features, the sixth edition presents a range of updated examples using MATLAB®, as well as an appendix listing MATLAB functions for optimizing control system analysis and design. Over 75 percent of the problems presented in the previous edition have been revised or replaced.

High-Performance Computing and Networking Nov 28 2019 This book constitutes the refereed proceedings of the 7th International Conference on High-Performance Computing and Networking, HPCN Europe 1999, held in Amsterdam, The Netherlands in April 1999. The 115 revised full papers presented were carefully selected from a total of close to 200 conference submissions as well as from submissions for various topical workshops. Also included are 40 selected poster presentations. The conference papers are organized in three tracks: end-user applications of HPCN, computational science, and computer science; additionally there are six sections corresponding to topical workshops.

Digital Twin Driven Smart Manufacturing May 03 2020 Digital Twin Driven Smart Manufacturing examines the background, latest research, and application models for digital twin technology, and shows how it can be central to a smart manufacturing process. The interest in digital twin in

manufacturing is driven by a need for excellent product reliability, and an overall trend towards intelligent, and connected manufacturing systems. This book provides an ideal entry point to this subject for readers in industry and academia, as it answers the questions: (a) What is a digital twin? (b) How to construct a digital twin? (c) How to use a digital twin to improve manufacturing efficiency? (d) What are the essential activities in the implementation of a digital twin? (e) What are the most important obstacles to overcome for the successful deployment of a digital twin? (f) What are the relations between digital twin and New Technologies? (g) How to combine digital twin with the New Technologies to achieve high efficiency and smartness in manufacturing? This book focuses on these problems as it aims to help readers make the best use of digital twin technology towards smart manufacturing. Analyzes the differences, synergies and possibilities for integration between digital twin technology and other technologies, such as big data, service and Internet of Things Discuss new requirements for a traditional three-dimension digital twin and proposes a methodology for a five-dimension version Investigates new models for optimized manufacturing, prognostics and health management, and cyber-physical fusion based on the digital twin

Groundwater Engineering May 15 2021 This textbook employs a technical and quantitative approach to explain subsurface hydrology and hydrogeology, and to offer a comprehensive overview of groundwater-related topics such as flow in porous media, aquifer characterization, contaminant description and transport, risk assessment, and groundwater remediation. It describes the characterization of subsurface flow of pristine and polluted water and provides readers with easily applicable tools for the design of water supply systems, drinking-water source protection, and remediation interventions. Specific applications range from groundwater exploitation as a drinking water supply to the remediation of contaminated aquifers, from the definition and safeguarding of

drinking-water sources to the assessment of human health risks in connection with groundwater contamination events. The book represents an ideal learning resource for upper-undergraduate and graduate students of civil engineering, environmental engineering, and geology, as well as practitioners in the fields of water resource management and environmental protection who are interested in groundwater engineering and technical hydrogeology.

Introduction to Measure Theory and Functional Analysis Oct 08 2020 This book introduces readers to theories that play a crucial role in modern mathematics, such as integration and functional analysis, employing a unifying approach that views these two subjects as being deeply intertwined. This feature is particularly evident in the broad range of problems examined, the solutions of which are often supported by generous hints. If the material is split into two courses, it can be supplemented by additional topics from the third part of the book, such as functions of bounded variation, absolutely continuous functions, and signed measures. This textbook addresses the needs of graduate students in mathematics, who will find the basic material they will need in their future careers, as well as those of researchers, who will appreciate the self-contained exposition which requires no other preliminaries than basic calculus and linear algebra.

Molding Simulation: Theory and Practice Aug 30 2022 This practical introductory guide to injection molding simulation is aimed at both practicing engineers and students. It will help the reader to innovate and improve part design and molding processes, essential for efficient manufacturing. A user-friendly, case-study-based approach is applied, enhanced by many illustrations in full color. The book is conceptually divided into three parts: Chapters 1–5 introduce the fundamentals of injection molding, focusing the factors governing molding quality and how molding simulation methodology is developed. As they are essential to molding quality, the rheological, thermodynamic, thermal,

mechanical, kinetic properties of plastics are fully elaborated in this part, as well as curing kinetics for thermoset plastics. Chapters 6–11 introduce CAE verification of design, a valuable tool for both part and mold designers toward avoiding molding problems in the design stage and to solve issues encountered in injection molding. This part covers design guidelines of part, gating, runner, and cooling channel systems. Temperature control in hot runner systems, prediction and control of warpage, and fiber orientation are also discussed. Chapters 12–17 introduce research and development in innovative molding, illustrating how CAE is applied to advanced molding techniques, including co-/bi-Injection molding, gas-/water-assisted injection molding, foam injection molding, powder injection molding, resin transfer molding, and integrated circuit packaging. The authors come from the creative simulation team at CoreTech System (Moldex3D), winner of the PPS James L. White Innovation Award 2015. Several CAE case study exercises for execution in the Moldex3D software are included to allow readers to practice what they have learned and test their understanding.

Engineering Problems Jul 17 2021

Advances on Mechanics, Design Engineering and Manufacturing II May 27 2022 This book contains the papers presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2018), held on 20-22 June 2018 in Cartagena, Spain. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is divided into six main sections, reflecting the focus and primary themes of the conference. The contributions presented here will not only provide

researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed, and future interdisciplinary collaborations.
Optimal Learning Jan 29 2020 Learn the science of collecting information to make effective decisions Everyday decisions are made without the benefit of accurate information. Optimal Learning develops the needed principles for gathering information to make decisions, especially when collecting information is time-consuming and expensive. Designed for readers with an elementary background in probability and statistics, the book presents effective and practical policies illustrated in a wide range of applications, from energy, homeland security, and transportation to engineering, health, and business. This book covers the fundamental dimensions of a learning problem and presents a simple method for testing and comparing policies for learning. Special attention is given to the knowledge gradient policy and its use with a wide range of belief models, including lookup table and parametric and for online and offline problems. Three sections develop ideas with increasing levels of sophistication: Fundamentals explores fundamental topics, including adaptive learning, ranking and selection, the knowledge gradient, and bandit problems Extensions and Applications features coverage of linear belief models, subset selection models, scalar function optimization, optimal bidding, and stopping problems Advanced Topics explores complex methods including simulation optimization, active learning in mathematical programming, and optimal continuous measurements Each chapter identifies a specific learning problem, presents the related, practical algorithms for implementation, and concludes with numerous exercises. A related website features additional applications and downloadable software, including MATLAB and the Optimal Learning Calculator, a spreadsheet-based package that provides an introduction to learning and a variety of policies for learning.

Mathematical Methods in Engineering Apr 01 2020 This book collects chapters dealing with some of the theoretical aspects needed to properly discuss the dynamics of complex engineering systems. The book illustrates advanced theoretical development and new techniques designed to better solve problems within the nonlinear dynamical systems. Topics covered in this volume include advances on fixed point results on partial metric spaces, localization of the spectral expansions associated with the partial differential operators, irregularity in graphs and inverse problems, Hyers-Ulam and Hyers-Ulam-Rassias stability for integro-differential equations, fixed point results for mixed multivalued mappings of Feng-Liu type on Mb-metric spaces, and the limit q-Bernstein operators, analytical investigation on the fractional diffusion absorption equation.

Understanding Policy Decisions Sep 26 2019 This book proposes a model for understanding how innovative policy decisions are taken in complex political and organizational systems as well as the possible strategies that the promoter of the innovation can employ in order to maximize the probability of successful adoption and implementation. It presents a conceptual framework for the analysis of decisional situations in order to design the most appropriate strategies for overcoming conflict (e.g. of the NIMBY variety) and/or increasing the engagement of potentially interested actors. The book includes a template for decisional case studies, a protocol for the definition of a decisional strategy, and an exercise in decisional analysis.

Oil and Gas Wells Dec 30 2019 The aim of this book is to present some advances in different aspects of oil and gas technology. Two chapters are dedicated to the scientific research in the domain of reservoir engineering and characterization. Four chapters are dedicated to the field of well drilling and performance and another chapter is related to oil and transport.

Mathematical Analysis I Apr 25 2022 The purpose of the volume is to provide a support for a first

course in Mathematics. The contents are organised to appeal especially to Engineering, Physics and Computer Science students, all areas in which mathematical tools play a crucial role. Basic notions and methods of differential and integral calculus for functions of one real variable are presented in a manner that elicits critical reading and prompts a hands-on approach to concrete applications. The layout has a specifically-designed modular nature, allowing the instructor to make flexible didactical choices when planning an introductory lecture course. The book may in fact be employed at three levels of depth. At the elementary level the student is supposed to grasp the very essential ideas and familiarise with the corresponding key techniques. Proofs to the main results befit the intermediate level, together with several remarks and complementary notes enhancing the treatise. The last, and farthest-reaching, level requires the additional study of the material contained in the appendices, which enable the strongly motivated reader to explore further into the subject. Definitions and properties are furnished with substantial examples to stimulate the learning process. Over 350 solved exercises complete the text, at least half of which guide the reader to the solution. This new edition features additional material with the aim of matching the widest range of educational choices for a first course of Mathematics.

Digital Skills and Life-long Learning: Digital Learning as a New Insight of Enhanced Learning by the Innovative Approach Joining Technology and Cognition Jun 03 2020 Recently, technology and aging have been key research areas in human cognition. The Research Topic “Digital Skills and Life-long Learning: Digital Learning as a New Insight of Enhanced Learning by the Innovative Approach Joining Technology and Cognition” investigated technology's impact on cognitive and intellective processes, highlighting how intensively technology can change and/or enhance the cognitive functioning throughout one’s lifespan. The aim of this Research Topic was to provide an outlook

through multidisciplinary research and development while addressing the dynamic intersection of cognition, mind, and technology. Our scope was 1) to favor the cognitive technology debate, 2) to overcome the dichotomies of technology and psychology, 3) to emphasize the advances in knowledge and well-being. This Research Topic comprises review studies and original articles, focused on digital skills that enhance human potential. Transversal approaches and cross-sectorial analysis were encouraged, leading to investigation areas related to cognitive and mental processing—in educational, rehabilitation, clinical settings—across aging. Articles of high relevance to the Research Topic were submitted on the subjects of a) research in human performance and human factors, b) new research and technologies addressing the needs of a growing populace, and c) cognitive aging and cognitive rehabilitation research.

Computational Models for Polydisperse Particulate and Multiphase Systems Aug 18 2021 All-inclusive introduction to polydisperse multiphase flows linking theory to practice through numerous real-world examples and MATLAB® scripts for key algorithms.

Iterative Methods for Solving Linear Systems Jun 15 2021 Mathematics of Computing -- Numerical Analysis.

Superuse Aug 06 2020 Constructing new buildings with retrieved surplus materials is a practical and inspiring book about recycling superfluous stuff in architecture.

Fluid Fuel Reactors Sep 06 2020