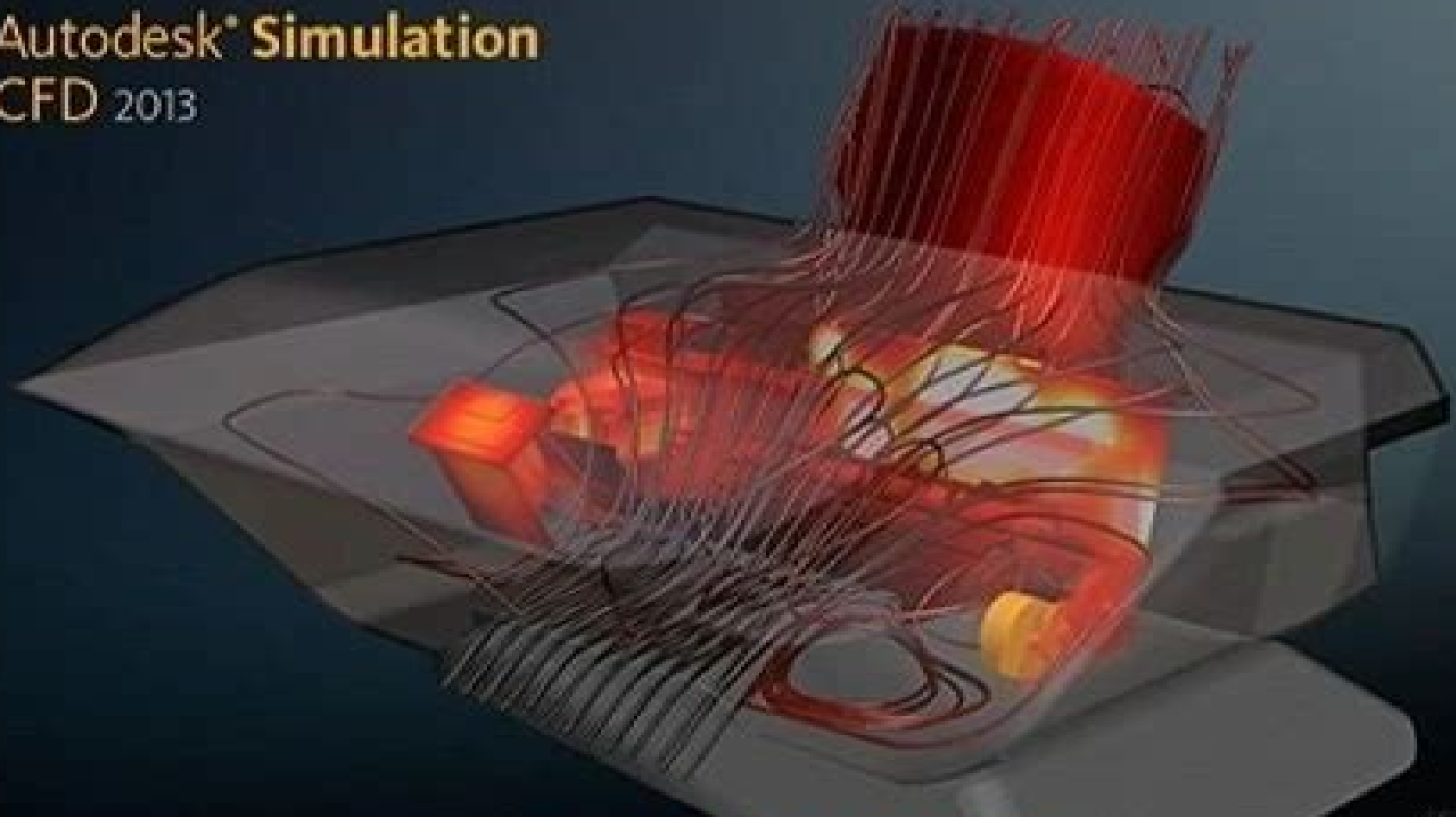


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Huangqi Zhang



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Modern Methods of Construction Design Ladislav Ševčík, Petr Lepšík, Michal Petruš, Ivan Mašín, Rudolf Martonka, 2014-04-02 This book has been created on the basis of contributions to the 54th International Conference of Machine Design Departments that was held for the 60th anniversary of Technical University of Liberec This international conference which follows a tradition going back more than 50 years is one of the longest running series of conferences held in central Europe dealing with methods and applications in machine design The main aim of the conference was to provide an international forum where experts researchers engineers and industrial practitioners managers and Ph D students could meet share their experiences and present the results of their efforts in the broad field of machine design and related fields The book has seven chapters which focus on new knowledge of machine design optimization tribology experimental methods and measuring engineering analyses and product innovation Authors presented new design methods of machine parts and more complex assemblies with the help of numerical methods such as FEM Research measurements and studies of new materials including composites for energy efficient constructions are also described The book also includes solutions and results useful for optimization and innovation of complex design problems in various industries Greenhouse Design and Control Pedro Ponce, Arturo Molina, Paul Cepeda, Esther Lugo, Brian MacCleery, 2014-09-11 Agricultural production is one of the main keys to the development of healthy societies It is anticipated that agricultural systems will increasingly have to contend with temperature humidity and water stress in the near future This makes the need to increase the efficiency of land and water use ever more urgent The control and design of greenhouses allows to increase dramatically the quality of crops and extend the cultivation period year round A properly designed autonomous greenhouse based on hydroponics can greatly reduce the amounts of nutrients and energy expended in agricultural production This book deals with different types of greenhouses materials structures advanced control techniques and tendencies that are needed for designing and controlling an advanced greenhouse The control system is presented as an integral system which covers the explanation of basic and advanced concepts for a real time controller Also structural analysis is introduced whereby mechanical design is regarded as a key factor The book incorporates simulations and experimental results and utilizes LabVIEW and ADAMS software Finally it provides a perspective on the present state and future of greenhouses globally Written in a highly accessible manner this book will prove useful to horticulturalists agricultural engineers greenhouse engineers and designers Its easy to absorb contents are also suitable for under graduate students and researchers in agricultural and electronic engineering horticulture crop cultivation and soft computing **CADmaster №6, 2013 , Integrated Waste Biorefineries: Achieving Sustainable Development Goals, 2nd edition** Mohammad Rehan, Muhammad Amjad, Ala'A Al-Muhtaseb, Muhammad Abdul Qyyum, Konstantinos Moustakas, Su Shiung Lam, Abdul-Sattar Nizami, Meisam Tabatabaei, Imtiaz Ali, Arshid Mahmood Ali, Muhammad Farooq, 2024-01-11 The United Nations Sustainable Development

Goals SDGs are designed to revolutionize societies to prepare for the future challenges However the practical implementation of such goals in many domains is are yet to be achieved despite of unique essence Sustainable energy production aligned with SDG 7 clean water and sanitation aligned with SDG 6 sustainable waste services aligned with SDG 11 and mitigating climate change impacts aligned with SDG 13 have been the prime focus of SDGs Moreover much attention is being paid to research and development activities on waste prevention reduction recycling and reuse to achieve responsible consumption and production aligned with SDG 12 Waste biorefineries have emerged as a sustainable environmental management solution to achieve not only the aforementioned SDGs but also to accomplish no poverty aligned with SDG 1 and zero hunger aligned with SDG 2 and to maintain well being and good health aligned with SDG 3 and decent work and economic growth aligned with SDG 8 worldwide This is true because integrated waste biorefineries can efficiently and sustainably produce fuels heat energy power and multiple value added products and chemicals It can further facilitate the transition from linear to circular economies and mitigate the major challenges faced including environmental pollution climate change and adverse effects on public health This Research Topic will focus on different types of waste biorefineries current status practical implications optimization of waste to energy technologies detailed life assessment studies and future opportunities with a vision to achieve SDGs in the areas of sustainable energy generation waste management circular economies and climate change mitigation The editorial team of this special issue consisting of world renowned scientists including Highly Cited Researchers welcomes submissions of original research articles review articles short communications industrial and or country region case studies that covers the following enlisted topics Waste biorefineries e g organic waste biorefinery agricultural and forestry waste biorefinery etc Integration of different types of biorefineries Sustainable development goals Waste to energy technologies Energy and resource recovery from biomass and other waste Renewable and sustainable energy systems Biomass and waste supply chain Sustainable waste management systems Mitigation of environmental pollution and climate change Life cycle assessment Sustainable circular and bio based economies

CADmaster №5, 2013 , Electromagnetic Analysis and Condition Monitoring of Synchronous Generators

Hosseini Ehyai, Jawad Faiz, 2022-12-06 Electromagnetic Analysis and Condition Monitoring of Synchronous Generators Discover an insightful and complete overview of electromagnetic analysis and fault diagnosis in large synchronous generators In Electromagnetic Analysis and Condition Monitoring of Synchronous Generators a team of distinguished engineers delivers a comprehensive review of the electromagnetic analysis and fault diagnosis of synchronous generators Beginning with an introduction to several types of synchronous machine structures the authors move on to the most common faults found in synchronous generators and their impacts on performance The book includes coverage of different modeling tools including the finite element method winding function and magnetic equivalent circuit as well as various types of health monitoring systems focusing on the magnetic field voltage current shaft flux and vibration Finally Electromagnetic Analysis

and Condition Monitoring of Synchronous Generators covers signal processing tools that can help identify hidden patterns caused by faults and machine learning tools enabling automated condition monitoring The book also includes A thorough introduction to condition monitoring in electric machines and its importance to synchronous generators Comprehensive explorations of the classification of synchronous generators including armature arrangement machine construction and applications Practical discussions of different types of electrical and mechanical faults in synchronous generators including short circuit faults eccentricity faults misalignment core related faults and broken damper bar faults In depth examinations of the modeling of healthy and faulty synchronous generators including analytical and numerical methods Perfect for engineers working in electrical machine analysis maintenance and fault detection Electromagnetic Analysis and Condition Monitoring of Synchronous Generators is also an indispensable resource for professors and students in electrical power engineering

Global Design and Local Materialization Jianlong Zhang, Chengyu Sun, 2013-06-03 This book constitutes the refereed proceedings of the 15th International Conference on Computer Aided Architectural Design Futures CAAD Futures 2013 held in Shanghai China in July 2013 The 35 revised full papers presented were carefully reviewed and selected from 78 submissions The papers are organized in topical sections on digital aids to design creativity concepts and strategies digital fabrication and local materialization human computer interaction user participation and collaborative design modeling and simulation shape and form studies

Infrastructure and Environment Anna Krakowiak-Bal, Magdalena Vavrkova, 2019-05-13 This book constitutes the 25th International Conference on Infrastructure and Environment infraeco 2018 that focuses on rural problems connected with infrastructural equipment In general infrastructure issues are dedicated to urban areas while rural topics are linked to agriculture so this conference bridges these two aspects It also explores ways to manage and separate conflicts between different and important needs of inhabitants the environment and other spatial users The conference provides a forum for much needed cooperation between various scientific disciplines regarding these multidisciplinary problems and issues hence Infraeco 2018 draws together engineers planners consultants land developers and academics from across all disciplines of highway planning design operations and engineering to presents effective practices and share current research results

Time and Space Maria do Rosário Monteiro, Mário S. Ming Kong, Maria João Pereira Neto, 2023-11-09 The texts presented in Proportion Harmonies and Identities PHI Time and Space were compiled to establish a multidisciplinary platform for presenting interacting and disseminating research It also aims to foster awareness and discussion on Time and Space focusing on different visions relevant to Architecture Arts and Humanities Design and Social Sciences and its importance and benefits for the sense of identity both individual and communal The idea of Time and Space has been a powerful motor for development since the Western Early Modern Age Its theoretical and practical foundations have become the working tools of scientists philosophers and artists who seek strategies and policies to accelerate the development process in different contexts

Design for Climate Adaptation Billie Faircloth, Maibritt Pedersen

Zari,Mette Ramsgaard Thomsen,Martin Tamke,2024-01-01 The book provides new perspectives from leading researchers accentuating and examining the central role of the built environment in conceiving and implementing multifaceted solutions for the complex challenges of climate change revealing critical potentials for architecture and design to contribute in more informed and long term ways to the urgent transition of our society The book offers a compilation of peer reviewed papers that uniquely connects knowledge broadly across practice and academia from the newest technologies and methods to indigenous knowledge community engagement techniques for ecosystem regeneration nature based solutions and more The book is part of a series of six volumes that explore the agency of the built environment in relation to the SDGs through new research conducted by leading researchers The series is led by editors Mette Ramsgaard Thomsen and Martin Tamke in collaboration with the theme editors Design for ClimateAdaptation Billie Faircloth and Maibritt Pedersen Zari Design for Rethinking Resources Carlo Ratti and Mette Ramsgaard Thomsen Eds Design for Resilient Communities Anna Rubbo and Juan Du Eds Design for Health Arif Hasan and Christian Benimana Eds Design for Inclusivity Magda Mostafa and Ruth Baumeister Eds Design for Partnerships for Change Sandi Hilal and Merve Bedir Eds

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