

Natali Hritonenko and  
Yuri Yatsenko

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**MODELING AND  
OPTIMIZATION OF  
THE LIFETIME OF  
TECHNOLOGIES**

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# Modeling And Optimization Of The Lifetime Of Technologies

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## **Modeling And Optimization Of The Lifetime Of Technologies:**

**Modeling and Optimization of the Lifetime of Technologies** N.V. Hritonenko, Yuri P. Yatsenko, 2013-12-01 Modern economic growth is characterized by structural changes based on the introduction of new technologies into economics The replacement and renovation of technologies in industrial environments undergoing technical change is clearly one of the key aspects of economic development The mathematical modeling of evolutionary economics under technical change TC has been rigorously considered by many authors during last decades There is a wide variety of economic approaches and models describing different aspects of technical change Among these are the models of embodied technical progress 19 35 70 129 endogenous growth models 94 102 the models of technological innovations 31 32 41 and others The perspective self organization evolutionary approach is developed in 20 38 122 123 124 126 which unites the aspects of diffusion of new technologies technological and behavioral diversity of firms learning mechanisms age dependent effects and other important features of real life economics On the whole an interest in evolutionary economics has brought considerable progress in the description and conceptualization of the sources characteristics direction and effects of technical change 125 However the modeling and control of technology lifetime under technical change has received rather little attention in mathematical economics in contrary to other aspects of technical progress The lifetime of technologies has rarely been formally treated as a part of more general mathematical theory of economic dynamics A problem which is still to be resolved consists in establishing the rational strategies of technologies replacement under various assumptions on the behavior of technical change Modernisation, Mechanisation and Industrialisation of Concrete Structures Kim S. Elliott, Zuhairi Abd.

Hamid, 2017-02-13 Modernisation Mechanisation and Industrialisation of Concrete Structures discusses the manufacture of high quality prefabricated concrete construction components and how that can be achieved through the application of developments in concrete technology information modelling and best practice in design and manufacturing techniques

**Recent Advances in Building Materials and Technologies** Sreevalsa Kolathayar, K. S. Sreekesava, N. Vinod Chandra Menon, 2024-05-17 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 hosted under the aegis of the Group of Twenty G20 and Civil 20 C20 at Jyothy Institute of Technology Bengaluru India The topics covered in this book are sustainable materials with low embodied carbon such as recycled steel reclaimed wood and alternative binders like geopolymers concrete renewable materials like bamboo and straw energy efficient technologies including solar panels energy efficient insulation and smart building systems This book serves as a resource material for researchers and industry professionals interested in developing solutions for sustainable and resilient infrastructure that aims for communities with net zero targets *Life System Modeling and Intelligent Computing* Kang Li, Xin Li, Shiwei Ma, George W. Irwin, 2010-09-03 The 2010 International Conference on Life System Modeling and Simulation LSMS 2010 and the 2010 International Conference on Intelligent

Computing for Sustainable Energy and Environment ICSEE 2010 were formed to bring together researchers and practitioners in the fields of life system modeling simulation and intelligent computing applied to worldwide sustainable energy and environmental applications A life system is a broad concept covering both micro and macro components ranging from cells tissues and organs across to organisms and ecological niches To comprehend and predict the complex behavior of even a simple life system can be tremendously difficult using conventional approaches To meet this challenge a variety of new theories and methodologies have emerged in recent years on life system modeling and simulation Along with improved understanding of the behavior of biological systems novel intelligent computing paradigms and techniques have emerged to handle complicated real world problems and applications In particular intelligent computing approaches have been valuable in the design and development of systems and facilities for achieving sustainable energy and a sustainable environment the two most challenging issues currently facing humanity The two LSMS 2010 and ICSEE 2010 conferences served as an important platform for synergizing these two research streams

Current Developments in Biotechnology and Bioengineering Sunil Kumar, Rakesh Kumar, Ashok Pandey, 2021-06-16 Strategic Perspectives in Solid Waste and Wastewater Management explores conventional and advanced biotechnologies for waste management including socio economic aspects technological economic feasibility models and modeling tools and a detailed life cycle assessment approach in solid waste SW and wastewater WW These innovative technologies are highly applicable to current real world situations The enormous increase in the quantum and diversity of SW and WW including waste materials generated due to human activity and their potentially harmful effects on the environment and public health have led to increasing awareness about an urgent need to adopt novel technologies for appropriate management of both SW and WW While there is an obvious need to minimize the generation of wastes and to reuse and recycle them the technologies for managing such wastes can play a vital role in mitigating problems Besides recovery of substantial energy these technologies can lead to a considerable reduction in the overall waste quantities requiring final disposal which can be better managed for safe disposal in a controlled manner while meeting pollution control standards Outlines appropriate technologies for solid waste and wastewater management systems and their applications Presents and evaluates the Best Available Technology BAT and includes global case studies Provides methods for evaluating the way to use appropriate technological systems to develop the best technically and economically feasible projects worldwide Offers an excellent resource for university students to use for their research and dissertations

**Life System Modeling and Intelligent Computing** Minrui Fei, Li Jia, George W. Irwin, 2010-09 This book is part I of a two volume work that contains the refereed proceedings of the International Conference on Life System Modeling and Simulation LSMS 2010 and the International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2010 held in Wuxi China in September 2010 The 194 revised full papers presented were carefully reviewed and selected from over 880 submissions and recommended for publication by Springer in two volumes of Lecture Notes in Computer Science LNCS and

one volume of Lecture Notes in Bioinformatics LNBI This particular volume of Lecture Notes in Computer Science LNCS includes 55 papers covering 7 relevant topics The 55 papers in this volume are organized in topical sections on intelligent modeling monitoring and control of complex nonlinear systems autonomy oriented computing and intelligent agents advanced theory and methodology in fuzzy systems and soft computing computational intelligence in utilization of clean and renewable energy resources intelligent modeling control and supervision for energy saving and pollution reduction intelligent methods in developing vehicles engines and equipments computational methods and intelligence in modeling genetic and biochemical networks and regulation

**Life Cycle & Technoeconomic Modeling** Antonio Colmenar Santos, David Borge Diez, Enrique Rosales Asensio, 2020-12-02 This book aims to perform an impartial analysis to evaluate the implications of the environmental costs and impacts of a wide range of technologies and energy strategies This information is intended to be used to support decision making by groups including researchers industry regulators and policy makers Life cycle assessment LCA and technoeconomic analysis can be applied to a wide variety of technologies and energy strategies both established and emerging LCA is a method used to evaluate the possible environmental impacts of a product material process or activity It assesses the environmental impact throughout the life cycle of a system from the acquisition of materials to the manufacture use and final disposal of a product Technoeconomic analysis refers to cost evaluations including production cost and life cycle cost Often in order to carry out technoeconomic analysis researchers are required to obtain data on the performance of new technologies that operate on a very small scale in order to subsequently design configurations on a commercial scale and estimate the costs of such expansions The results of the developed models help identify possible market applications and provide an estimate of long term impacts These methods together with other forms of decision analysis are very useful in the development and improvement of energy objectives since they will serve to compare different decisions evaluating their political and economic feasibility and providing guidance on potential financial and technological risks

**Concepts and Methodologies for Modeling and Simulation** Levent Yilmaz, 2015-04-08 This comprehensive text presents cutting edge advances in the theory and methodology of modeling and simulation M presents a focus on advanced modeling methodologies reviews the reliability and quality assurance of models discusses the specification and simulation of human and social behavior including models of personality emotions conflict management perception and anticipation provides a survey of the body of knowledge in M highlights the foundations established by the pioneering work of Prof Tuncer ren

*FOCAPD-19/Proceedings of the 9th International Conference on Foundations of Computer-Aided Process Design, July 14 - 18, 2019* Salvador Garcia Munoz, Carl D. Laird, Matthew J. Realff, 2019-07-09 FOCAPD 19 Proceedings of the 9th International Conference on Foundations of Computer Aided Process Design July 14 18 2019 compiles the presentations given at the Ninth International Conference on Foundations of Computer Aided Process Design FOCAPD 2019 It highlights the meetings held at this event that brings together researchers educators and practitioners to identify new challenges and

opportunities for process and product design Combines presentations from the Ninth International Conference on Foundations of Computer Aided Process Design FOCAPD 2019      Model Engineering for Simulation Lin Zhang, Bernard P. Zeigler, Yuanjun Lai, 2019-02-27 Model Engineering for Simulation provides a systematic introduction to the implementation of generic normalized and quantifiable modeling and simulation using DEVS formalism It describes key technologies relating to model lifecycle management including model description languages complexity analysis model management service oriented model composition quantitative measurement of model credibility and model validation and verification The book clearly demonstrates how to construct computationally efficient object oriented simulations of DEVS models on parallel and distributed environments Guides systems and control engineers in the practical creation and delivery of simulation models using DEVS formalism Provides practical methods to improve credibility of models and manage the model lifecycle Helps readers gain an overall understanding of model lifecycle management and analysis Supported by an online ancillary package that includes an instructors and student solutions manual      **Work-Life Balance** C B Rao, 2019-02-01 Every organization is like a delicate ecosystem It needs to be nurtured with care and concern just as a natural ecosystem is ecologically nurtured For this organizational behavior is the instrument Organizational behavior is the study of human behavior in organizational settings including the interface of human beings among themselves the interface of human beings with their and other external organizations and the behavior of organizations with respect to individuals and other organizations Individual behavior is an integral part of organizational behavior As individuals and organizations devote the needed attention to the subject the challenging issue of work life balance is resolved This major work on organizational behavior with its ninety chapters is divided into fifteen sections each of which deals with a specific theme relating to factors impacting and is impacted by organizational behavior This book provides multiple constructs that facilitate optimal work life balance This book will serve as a companion text for students and faculty specializing in organizational behavior and general management Academicians industry managers and leaders as well as administrators and policy makers will find this book a useful thought primer and guide for effective organizational management More importantly the several propositions made in the book would help individuals and institutions achieve competitive strength emotional stability and self actualization through optimal work life balance      *Modeling and Computation in Engineering II* Liquan Xie, 2013-05-21 Modeling and Computation in Engineering II CMCE 2013 Hong Kong 22 23 June 2013 includes 50 contributions on modeling and simulation technology which were presented at the 2nd SREE Conference on Modeling and Computation in Engineering CMCE 2013 and the 3rd SREE Workshop on Applied Mechanics and Civil Engineering AMCE 2013 both held in Hong Kong 22 23 June 2013 The topics covered include Modeling technology Simulation technology and tools Computation methods and their engineering applications Mechanics in engineering Modeling and Computation in Engineering II reviews recent advances in multiple areas including applied mechanics civil engineering modeling simulation in engineering design theories construction science

and advanced material applications in building structures underground structures bridge structures hydraulic engineering municipal engineering port and coastal engineering road and transportation engineering and will be invaluable to academics and professional interested in civil hydraulic and mechanical engineering      **Federal Software Exchange Catalog** ,1986

**Cybersecurity and Data Science Innovations for Sustainable Development of HEICC** Thangavel Murugan,W. Jai Singh,2025-01-30 Cybersecurity and Data Science Innovations for Sustainable Development of HEICC Healthcare Education Industry Cities and Communities brings together a collection of chapters that explore the intersection of cybersecurity data science and sustainable development across key sectors healthcare education industry cities and communities It delves into cybersecurity advancements and examines how innovations in cybersecurity are shaping the landscape of healthcare education industry and urban environments Data science advancements take center stage showcasing the transformative power of data analytics in improving outcomes across HEICC sectors Whether it s optimizing resource allocation in healthcare protecting patient privacy personalizing learning experiences in education enhancing efficiency in industry or fostering sustainable development in cities and communities data science offers unprecedented opportunities for innovation and progress Key points Healthcare system security and privacy protecting patient data and enabling development of novel healthcare solutions Securing educational data improving online learning security and harnessing data analytics for tailored education approaches Manufacturing finance and transportation Diving into critical infrastructure security detecting and mitigating cyber threats and using data driven insights for better industrial operations Helping cities and communities develop sustainably smart city security challenges data privacy in urban environments data analytics for urban planning and community cybersecurity awareness This book serves as a comprehensive guide for researchers practitioners policymakers and stakeholders navigating the complex landscape of cybersecurity and data science in the pursuit of sustainable development across HEICC domains      **Department of Energy fiscal year 2014 justifications** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2013      *Energy and Water Development Appropriations for 2014* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2013      **Engineering in K-12 Education** National Research Council,National Academy of Engineering,Committee on K-12 Engineering Education,2009-09-08 Engineering education in K 12 classrooms is a small but growing phenomenon that may have implications for engineering and also for the other STEM subjects science technology and mathematics Specifically engineering education may improve student learning and achievement in science and mathematics increase awareness of engineering and the work of engineers boost youth interest in pursuing engineering as a career and increase the technological literacy of all students The teaching of STEM subjects in U S schools must be improved in order to retain U S competitiveness in the global economy and to develop a workforce with the knowledge and skills to address technical and technological issues Engineering in K 12 Education reviews the scope and impact of engineering

education today and makes several recommendations to address curriculum policy and funding issues The book also analyzes a number of K 12 engineering curricula in depth and discusses what is known from the cognitive sciences about how children learn engineering related concepts and skills Engineering in K 12 Education will serve as a reference for science technology engineering and math educators policy makers employers and others concerned about the development of the country s technical workforce The book will also prove useful to educational researchers cognitive scientists advocates for greater public understanding of engineering and those working to boost technological and scientific literacy

**18th European Symposium on Computer Aided Process Engineering** Bertrand Braunschweig,Xavier Joulia,2008-05-15 The 18th European Symposium on Computer Aided Process Engineering contains papers presented at the 18th European Symposium of Computer Aided Process Engineering ESCAPE 18 held in Lyon France from 1 4 June 2008 The ESCAPE series brings the latest innovations and achievements by leading professionals from the industrial and academic communities The series serves as a forum for engineers scientists researchers managers and students from academia and industry to present new computer aided methods algorithms techniques related to process and product engineering discuss innovative concepts new challenges needs and trends in the area of CAPE This research area bridges fundamental sciences physics chemistry thermodynamics applied mathematics and computer sciences with the various aspects of process and product engineering The special theme for ESCAPE 18 is CAPE for the Users CAPE systems are to be put in the hands of end users who need functionality and assistance beyond the scientific and technological capacities which are at the core of the systems The four main topics are off line systems for synthesis and design on line systems for control and operation computational and numerical solutions strategies integrated and multi scale modelling and simulation Two general topics address the impact of CAPE tools and methods on Society and Education CD ROM that accompanies the book contains all research papers and contributions International in scope with guest speeches and keynote talks from leaders in science and industry Presents papers covering the latest research key top areas and developments in Computer Aided Process Engineering

**Internet of Production** Christian Brecher,Günther Schuh,Wil van der Aalst,Matthias Jarke,Frank T. Piller,Melanie Padberg,2023-12-29 This seminal compendium available through open access illuminates the forefront of digital collaboration in production It introduces the visionary concept of the Internet of Production IoP an ambitious initiative by Germany s esteemed Cluster of Excellence at RWTH Aachen University This handbook pioneers the integration of data models and knowledge across development production and user cycles offering interdisciplinary insights into production technology s horizons with the overall objective to create a worldwide lab The work is organized into seven key parts each contributing to a comprehensive understanding of the IoP Part I lays the foundation with interdisciplinary visions and concepts Part II delves into IoP s infrastructure encompassing digital shadows and actionable artificial intelligence Part III examines materials within the digitalized production landscape Part IV confronts the challenges and potentials of production processes under novel



digitalization methods Part V focuses on production management with data driven decision support while Part VI explores agile development processes Finally Part VII delves into the interplay between internal and external perspectives in the IoP human centered work design and platform based ecosystems Supported by the German Research Foundation DFG this compendium redefines manufacturing through the transformative IoP lens Embrace this scholarly endeavor to embrace technological advancement This is an open access book      **Leveraging Technology for a Sustainable World** David A. Dornfeld, Barbara S. Linke, 2012-04-23 The 19th CIRP Conference on Life Cycle Engineering continues a strong tradition of scientific meetings in the areas of sustainability and engineering within the community of the International Academy for Production Engineering CIRP The focus of the conference is to review and discuss the current developments technology improvements and future research directions that will allow engineers to help create green businesses and industries that are both socially responsible and economically successful The symposium covers a variety of relevant topics within life cycle engineering including Businesses and Organizations Case Studies End of Life Management Life Cycle Design Machine Tool Technologies for Sustainability Manufacturing Processes Manufacturing Systems Methods and Tools for Sustainability Social Sustainability and Supply Chain Management

## Whispering the Strategies of Language: An Mental Journey through **Modeling And Optimization Of The Lifetime Of Technologies**

In a digitally-driven earth wherever monitors reign great and instant transmission drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within phrases often move unheard. However, set within the pages of **Modeling And Optimization Of The Lifetime Of Technologies** a interesting fictional treasure sporting with raw feelings, lies a fantastic quest waiting to be undertaken. Composed by a talented wordsmith, this charming opus invites viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within the cloth of every word. Within the emotional depths with this touching evaluation, we can embark upon a honest exploration of the book is primary subjects, dissect their captivating publishing fashion, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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