

Natali Hritonenko and
Yuri Yatsenko

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

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Modeling And Optimization Of The Lifetime Of Technologies

**Antonio Colmenar Santos, David Borge
Diez, Enrique Rosales Asensio**



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

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

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 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 extremely 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

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 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 techno 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

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 **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

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 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 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 *Applied Mathematical Modelling of Engineering Problems* Natali Hritonenko,Yuri

Yatsenko,2003-06-30 The subject of the book is the know how of applied mathematical modelling how to construct specific models and adjust them to a new engineering environment or more precise realistic assumptions how to analyze models for the purpose of investigating real life phenomena and how the models can extend our knowledge about a specific engineering process Two major sources of the book are the stock of classic models and the authors wide experience in the field The book provides a theoretical background to guide the development of practical models and their investigation It considers general modelling techniques explains basic underlying physical laws and shows how to transform them into a set of mathematical

equations The emphasis is placed on common features of the modelling process in various applications as well as on complications and generalizations of models The book covers a variety of applications mechanical acoustical physical and electrical water transportation and contamination processes bioengineering and population control production systems and technical equipment renovation Mathematical tools include partial and ordinary differential equations difference and integral equations the calculus of variations optimal control bifurcation methods and related subjects *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 *Simulation Modeling - Recent Advances, New Perspectives, and Applications* Abdo About Jaoudé,2024-09-11 A simulation is the imitation of the operation of a real world process or system over time Simulations require the use of models in which a model represents the key characteristics or behaviors of the selected system or process and the simulation represents the evolution of the model over time Computers are often used to execute simulations This book provides a comprehensive overview of simulation modeling and explores its use to solve a large set of problems It is a useful resource for scholars researchers and undergraduate and graduate students in pure and applied mathematics physical sciences engineering and technology computer science numerical analysis scientific computing and science in general Federal Software Exchange Catalog ,1986 **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

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