

Flexibility in Engineering Design

Richard de Neufville and
Stefan Scholtes

ENGINEERING SYSTEMS



Flexibility In Engineering Design Engineering Systems

**Elsa Henriques, Paulo Pecas, Arlindo
Silva**



Flexibility In Engineering Design Engineering Systems:

Flexibility in Engineering Design Richard De Neufville, Stefan Scholtes, 2011-08-12 A guide to using the power of design flexibility to improve the performance of complex technological projects for designers managers users and analysts Project teams can improve results by recognizing that the future is inevitably uncertain and that by creating flexible designs they can adapt to eventualities This approach enables them to take advantage of new opportunities and avoid harmful losses Designers of complex long lasting projects such as communication networks power plants or hospitals must learn to abandon fixed specifications and narrow forecasts They need to avoid the flaw of averages the conceptual pitfall that traps so many designs in underperformance Failure to allow for changing circumstances risks leaving significant value untapped This book is a guide for creating and implementing value enhancing flexibility in design It will be an essential resource for all participants in the development and operation of technological systems designers managers financial analysts investors regulators and academics The book provides a high level overview of why flexibility in design is needed to deliver significantly increased value It describes in detail methods to identify select and implement useful flexibility The book is unique in that it explicitly recognizes that future outcomes are uncertain It thus presents forecasting analysis and evaluation tools especially suited to this reality Appendixes provide expanded explanations of concepts and analytic tools *Handbook of Engineering Systems Design* Anja Maier, Josef Oehmen, Pieter E. Vermaas, 2022-07-30 This handbook charts the new engineering paradigm of engineering systems It brings together contributions from leading thinkers in the field and discusses the design management and enabling policy of engineering systems It contains explorations of core themes including technical and socio organisational complexity human behaviour and uncertainty The text includes chapters on the education of future engineers the way in which interventions can be designed and presents a look to the future This book follows the emergence of engineering systems a new engineering paradigm that will help solve truly global challenges This global approach is characterised by complex sociotechnical systems that are now co dependent and highly integrated both functionally and technically as well as by a realisation that we all share the same climate natural resources a highly integrated economical system and a responsibility for global sustainability goals The new paradigm and approach requires the re designing of engineering systems that take into account the shifting dynamics of human behaviour the influence of global stakeholders and the need for system integration The text is a reference point for scholars engineers and policy leaders who are interested in broadening their current perspective on engineering systems design and in devising interventions to help shape societal futures *Real Options in Engineering Design, Operations, and Management* Harriet Black Nembhard, Mehmet Aktan, 2009-10-27 Given that engineering flexibility can potentially provide a competitive advantage the question then becomes Precisely how valuable is this flexibility However traditional methods often fail to accurately capture the economic value of investments in an environment of widespread uncertainty and rapid change The

real options method represents the Life-Cycle of Structures and Infrastructure Systems Fabio Biondini, Dan M. Frangopol, 2023-06-28 Life Cycle of Structures and Infrastructure Systems collects the lectures and papers presented at IALCCE 2023 The Eighth International Symposium on Life Cycle Civil Engineering held at Politecnico di Milano Milan Italy 26 July 2023 This Open Access Book contains the full papers of 514 contributions including the Fazlur R Khan Plenary Lecture nine Keynote Lectures and 504 technical papers from 45 countries The papers cover recent advances and cutting edge research in the field of life cycle civil engineering including emerging concepts and innovative applications related to life cycle design assessment inspection monitoring repair maintenance rehabilitation and management of structures and infrastructure systems under uncertainty Major topics covered include life cycle safety reliability risk resilience and sustainability life cycle damaging processes life cycle design and assessment life cycle inspection and monitoring life cycle maintenance and management life cycle performance of special structures life cycle cost of structures and infrastructure systems and life cycle oriented computational tools among others This Open Access Book provides an up to date overview of the field of life cycle civil engineering and significant contributions to the process of making more rational decisions to mitigate the life cycle risk and improve the life cycle reliability resilience and sustainability of structures and infrastructure systems exposed to multiple natural and human made hazards in a changing climate It will serve as a valuable reference to all concerned with life cycle of civil engineering systems including students researchers practitioners consultants contractors decision makers and representatives of managing bodies and public authorities from all branches of civil engineering

Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure Jaap Bakker, Dan M. Frangopol, Klaas Breugel, 2016-11-18 This volume contains the papers presented at IALCCE2016 the fifth International Symposium on Life Cycle Civil Engineering IALCCE2016 to be held in Delft The Netherlands October 16 19 2016 It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R Khan lecture keynote lectures and technical papers from all over the world All major aspects of life cycle engineering are addressed with special focus on structural damage processes life cycle design inspection monitoring assessment maintenance and rehabilitation life cycle cost of structures and infrastructures life cycle performance of special structures and life cycle oriented computational tools The aim of the editors is to provide a valuable source for anyone interested in life cycle of civil infrastructure systems including students researchers and practitioners from all areas of engineering and industry

Decision Making under Deep Uncertainty Vincent A. W. J. Marchau, Warren E. Walker, Pieter J. T. M. Bloemen, Steven W. Popper, 2019-04-04 This open access book focuses on both the theory and practice associated with the tools and approaches for decisionmaking in the face of deep uncertainty It explores approaches and tools supporting the design of strategic plans under deep uncertainty and their testing in the real world including barriers and enablers for their use in practice The book broadens traditional approaches and tools to include the analysis of actors and networks related to the problem at hand It also shows how lessons learned in

the application process can be used to improve the approaches and tools used in the design process The book offers guidance in identifying and applying appropriate approaches and tools to design plans as well as advice on implementing these plans in the real world For decisionmakers and practitioners the book includes realistic examples and practical guidelines that should help them understand what decisionmaking under deep uncertainty is and how it may be of assistance to them

Decision Making under Deep Uncertainty From Theory to Practice is divided into four parts Part I presents five approaches for designing strategic plans under deep uncertainty Robust Decision Making Dynamic Adaptive Planning Dynamic Adaptive Policy Pathways Info Gap Decision Theory and Engineering Options Analysis Each approach is worked out in terms of its theoretical foundations methodological steps to follow when using the approach latest methodological insights and challenges for improvement In Part II applications of each of these approaches are presented Based on recent case studies the practical implications of applying each approach are discussed in depth Part III focuses on using the approaches and tools in real world contexts based on insights from real world cases Part IV contains conclusions and a synthesis of the lessons that can be drawn for designing applying and implementing strategic plans under deep uncertainty as well as recommendations for future work The publication of this book has been funded by the Radboud University the RAND Corporation Delft University of Technology and Deltares

Life-Cycle Civil Engineering: Innovation, Theory and Practice Airong Chen,Xin Ruan,Dan M. Frangopol,2021-02-26 Life Cycle Civil Engineering Innovation Theory and Practice contains the lectures and papers presented at IALCCE2020 the Seventh International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life cycle of civil infrastructure systems including students researchers engineers and practitioners from all areas of engineering and industry

Marine Design XIII, Volume 1 Pentti Kujala,Liangliang Lu,2018-06-04 This is volume 1 of a 2 volume set Marine Design XIII collects the contributions to the 13th International Marine Design Conference IMDC 2018 Espoo Finland 10 14 June 2018 The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline The focus is on key design challenges and opportunities in the area of current maritime technologies and markets with special emphasis on Challenges in merging ship design and marine applications of experience based industrial design Digitalisation as technological enabler for stronger link between efficient design operations and maintenance in future Emerging technologies and their impact on future designs Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference focus Marine

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Introduction to Civil Engineering Systems Samuel Labi, 2014-04-07 This book presents an integrated systems approach to the evaluation analysis design and maintenance of civil engineering systems Addressing recent concerns about the world's aging civil infrastructure and its environmental impact the author makes the case for why any civil infrastructure should be seen as part of a larger whole He walks readers through all phases of a civil project from feasibility assessment to construction to operations explaining how to evaluate tasks and challenges at each phase using a holistic approach Unique coverage of ethics legal issues and management is also included

Perspectives on Engineering Uncertainty William Nuttall, Edoardo Patelli, Ewan Smith, David Webbe-Wood, Simon Middleburgh, 2025-05-02 This open access book considers the role of uncertainty in the design and development of large scale engineering systems The focus of the book is the safe behaviour of nuclear power plants in both routine operations and in incident situations The book introduces various types of uncertainty and addresses the extent to which uncertainties may be reduced The role of multiple dimensions of uncertainty is discussed as is the importance of modern computational techniques in handling large data sets Modern IT also provides engineers with new tools such as digital twins with the potential to greatly reduce cost both in design and in operations The book focuses on both system safety and efficiency and to do this reference is made to the Advanced Gas Cooled Reactor AGR The AGR is a mature established system through which the book elucidates various key concepts and ideas As well as being of interest to those working in the nuclear industry the book is likely to appeal to those working in other safety critical engineering sectors and for example reference is made to experiences in aviation and railway engineering This is neither a text book nor a review it is a primer for those seeking an introduction to modern approaches to uncertainty

ICoRD'13 Amaresh Chakrabarti, Raghu V. Prakash, 2013-01-12 This book showcases over 100 cutting edge research papers from the 4th International Conference on Research into Design ICoRD 13 the largest in India in this area written by eminent researchers from over 20 countries on the design process methods and tools for supporting global product development GPD The special features of the book are the variety of insights into the GPD process and the host of methods and tools at the cutting edge of all major areas of design research for its support The main benefit of this book for researchers in engineering design and GPD are access to the latest quality research in this area for practitioners and educators it is exposure to an empirically validated suite of methods and

tools that can be taught and practiced Analyses for Durability and System Design Lifetime Joseph H. Saleh, 2007-12-10 An issue in engineering design is a system's design lifetime Economists study durability choice problems for consumer goods but seldom address lifetime problems of complex engineering systems The issues for engineering systems are complex and multidisciplinary and require an understanding of the technicalities of durability and the economic implications of the marginal cost of durability and value maximization Commonly the design lifetime for an infrastructure is set between 30 and 70 years Satellite lifetimes are also assigned arbitrarily or with limited analysis This book provides a systemic qualitative and quantitative approach to these problems addressing first the technicality of durability second the marginal cost of durability and third the durability choice problem for complex engineering systems with network externalities competition and market uncertainty and obsolescence effects technology evolution Since the analyses are system specific a satellite example is used to illustrate the essence and provide a quantitative application of said analyses **Building Type Basics for Research**

Laboratories Daniel D. Watch, 2002-04-22 The fastest way to straighten out the learning curve on specialized design projects The series is welcome By providing recent buildings as examples supported with technical information and charts of design criteria these books attempt to bridge the gap between theory and practice Oculus Building Type Basics books provide architects with the essentials they need to jump start the design of a variety of specialized facilities In each volume leading national figures in the field address the key questions that shape the early phases of a project commission The answers to these questions provide instant information in a convenient easy to use format The result is an excellent hands on reference that puts critical information at your fingertips Building Type Basics for Research Laboratories provides the essential information needed to initiate designs for government academic and private research laboratories Filled with project photographs diagrams floor plans sections and details it combines in depth coverage of the structural mechanical energy cost and safety issues that are unique to research laboratories with the nuts and bolts design guidelines that will start any project off on the right track and keep it there through completion *Technology and Manufacturing Process Selection* Elsa

Henriques, Paulo Pecos, Arlindo Silva, 2013-12-19 This book provides specific topics intending to contribute to an improved knowledge on Technology Evaluation and Selection in a Life Cycle Perspectives Although each chapter will present possible approaches and solutions there are no recipes for success Each reader will find his/her balance in applying the different topics to his/her own specific situation Case studies presented throughout will help in deciding what fits best to each situation but most of all any ultimate success will come out of the interplay between the available solutions and the specific problem or opportunity the reader is faced with **Success by Design: Engineering Systems for Sustainable Growth**

Silas Mary, 2025-01-23 Success by Design reveals the secrets to creating robust systems that foster sustainable growth in business This book offers step by step guidance on how to design and implement business systems that support scalability efficiency and long term success From streamlining operations to optimizing workflows Success by Design shows you how to

build a business that can thrive in both the short term and the long term Through detailed frameworks and case studies this book helps you engineer the processes tools and strategies needed to scale your business effectively Success by Design is perfect for entrepreneurs and business leaders who want to build a solid foundation that enables continued growth and success

Systems Engineering in the Fourth Industrial Revolution Ron S. Kenett, Robert S. Swarz, Avigdor Zonnenshain, 2019-12-24 An up to date guide for using massive amounts of data and novel technologies to design build and maintain better systems engineering Systems Engineering in the Fourth Industrial Revolution Big Data Novel Technologies and Modern Systems Engineering offers a guide to the recent changes in systems engineering prompted by the current challenging and innovative industrial environment called the Fourth Industrial Revolution INDUSTRY 4.0 This book contains advanced models innovative practices and state of the art research findings on systems engineering The contributors an international panel of experts on the topic explore the key elements in systems engineering that have shifted towards data collection and analytics available and used in the design and development of systems and also in the later life cycle stages of use and retirement The contributors address the issues in a system in which the system involves data in its operation contrasting with earlier approaches in which data models and algorithms were less involved in the function of the system The book covers a wide range of topics including five systems engineering domains systems engineering and systems thinking systems software and process engineering the digital factory reliability and maintainability modeling and analytics and organizational aspects of systems engineering This important resource Presents new and advanced approaches methodologies and tools for designing testing deploying and maintaining advanced complex systems Explores effective evidence based risk management practices Describes an integrated approach to safety reliability and cyber security based on system theory Discusses entrepreneurship as a multidisciplinary system Emphasizes technical merits of systems engineering concepts by providing technical models Written for systems engineers Systems Engineering in the Fourth Industrial Revolution offers an up to date resource that contains the best practices and most recent research on the topic of systems engineering

Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision Robby Caspeele, Luc Taerwe, Dan M. Frangopol, 2018-10-15 This volume contains the papers presented at IALCCE2018 the Sixth International Symposium on Life Cycle Civil Engineering IALCCE2018 held in Ghent Belgium October 28-31 2018 It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R Khan lecture 8 keynote lectures and 390 technical papers from all over the world Contributions relate to design inspection assessment maintenance or optimization in the framework of life cycle analysis of civil engineering structures and infrastructure systems Life cycle aspects that are developed and discussed range from structural safety and durability to sustainability serviceability robustness and resilience Applications relate to buildings bridges and viaducts highways and runways tunnels and underground structures off shore and marine structures dams and hydraulic structures prefabricated design infrastructure

systems etc During the IALCCE2018 conference a particular focus is put on the cross fertilization between different sub areas of expertise and the development of an overall vision for life cycle analysis in civil engineering The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life cycle analysis and assessment in civil engineering including researchers practising engineers consultants contractors decision makers and representatives from local authorities

Disciplinary Convergence in Systems Engineering Research Azad M. Madni,Barry Boehm,Roger G. Ghanem,Daniel Erwin,Marilee J. Wheaton,2017-11-24 The theme of this volume on systems engineering research is disciplinary convergence bringing together concepts thinking approaches and technologies from diverse disciplines to solve complex problems Papers presented at the Conference on Systems Engineering Research CSER March 23 25 2017 at Redondo Beach CA are included in this volume This collection provides researchers in academia industry and government forward looking research from across the globe written by renowned academic industry and government researchers

Strategies to Cope with Risks of Uncertain Water Supply in Spate Irrigation Systems Eiman Fadul Bashir,2020-02-07 Flood based irrigation in particular spate irrigation relies on variable flood scenarios occurring every year Management of spate flood for spate irrigation must cope with the variability and uncertainty of water supply Coping with water supply risks is often the only way to harness the opportunities for a productive use of water in arid environment Integrating and strengthening community responses into irrigation policies and improvement plans could ensure sustainable and productive spate irrigated systems that can achieve food security for the poor population This research analyses and evaluates risks and coping strategies developed by farming communities in the Gash spate irrigation system in Sudan Eastern Africa The research has synthesized different coping strategies developed by farmers water user associations and water managers to cope with low high and untimely flood risks The research provide different frameworks that can assist with the identification of risk sources pathways and propagation as well as evaluation of locally developed strategies at field secondary and intake systems The findings of this study contribute to scarce knowledge on spate irrigation system and provide scientifically sound and evidence based insights to aid informed policy and decision making to improve productivity and sustainability of the spate irrigation systems

Collaborative Networks in Digitalization and Society 5.0 Luis M. Camarinha-Matos,Xavier Boucher,Angel Ortiz,2023-09-18 This book constitutes the refereed proceedings of the 24th IFIP WG 5.5 Working Conference on Virtual Enterprises PRO VE 2023 held in Valencia Spain in September 2023 The 59 papers presented in this book were carefully reviewed and selected from 119 submissions They provide a comprehensive overview of the major challenges in sustainability of collaborative ecosystems risks security and resilience in networks collaborative value creation and services collaborative interactions and human centered networks skills and enabling technologies collaborative healthcare and agile production and AI digital twins and intelligent frameworks

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