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A comprehensive
text that reviews the
methods and
technologies that
explore emergent
behavior in complex

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systems engineering
in multidisciplinary
fields In Emergent
Behavior in
Complex Systems
Engineering, the
authors present the
theoretical
considerations and
the tools required to
enable the study of
emergent behaviors

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systems. Information Technology is key to today's modern world. Scientific theories introduced in the last five decades can now be realized with the latest computational infrastructure.

Modeling and

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simulation, along
with Big Data
technologies are at
the forefront of such
exploration and
investigation. The
text offers a number
of simulation-based
methods,
technologies, and
approaches that are
designed to

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encourage the reader to incorporate simulation technologies to further their understanding of emergent behavior in complex systems.

The authors present a resource for those designing, developing,

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managing, operating,
and maintaining
systems, including
system of systems.

The guide is
designed to help
better detect,
analyse, understand,
and manage the
emergent behaviour
inherent in complex
systems engineering

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in order to reap the
benefits of
innovations and
avoid the dangers of
unforeseen
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Presents coverage of
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through the lens of
Modeling and
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current discussions
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insights in complex
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discipline of
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extends traditional
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functionality greater than their component elements, mega-systems have helped corporations and government organizations around the world resolve complex challenges that they otherwise couldn't address with stand-alone

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Engineering Mega-
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Challenge of
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understanding of the
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consideration of
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scale and the rapid
change of underlying
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Stevens, a Senior
Principal Engineer at
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experience

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analyzing,

engineering, and
acquiring large-scale
systems for the U.S.
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Defense and other
government
agencies, this book
explains how the
engineering of mega-
systems is inherently
different from that of

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monolithic systems.

It supplies the vocabulary and framework needed to explore the issues relevant to mega-systems. This framework then evolves into the Profiler diagnostic tool that helps you

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understand the nature and context of the system at hand and, on that basis, select the most appropriate processes, tools, and techniques. Stevens examines commercial and government applications of mega-

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systems to provide
insight into the
contemporary
challenges of
engineering these
systems in three
critical dimensions:
engineering
processes,
management
processes, and the
larger context in

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which these systems are developed and deployed. Complete with two case studies in engineering mega-systems that illustrate valuable lessons learned and highlight emerging practices, this book supplies the

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understanding and the tools needed to begin engineering, characterizing, and acquiring mega-systems across multiple dimensions. Software Security Engineering draws extensively on the systematic approach developed for the

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site offers a host of

tools, guidelines,

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managers address security issues in every phase of the software development life cycle (SDLC). The book's expert authors, themselves frequent contributors to the BSI site, represent two well-known resources in

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about more than just

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mechanisms and IT

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security services do

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Software security initiatives should follow a risk-management approach to identify priorities and to define what is “good enough”—understanding that software security risks will change throughout the SDLC Project

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managers and

software engineers
need to learn to think
like an attacker in
order to address the
range of functions
that software should
not do, and how
software can better
resist, tolerate, and
recover when under
attack

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Suitable as a reference for industry practitioners and as a textbook for classroom use, Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering provides a clear

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learned as

benchmarks that are applicable to other cases. If adopted correctly, the approaches outlined can facilitate significant progress in human affairs.

The study of complex systems is still in its infancy,

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and it is likely to evolve for decades to come. While this book does not provide all the answers, it does establish a platform, through which analysis and knowledge application can take place and

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conclusions can be made in order to educate the next generation of systems engineers.

Agile Systems Engineering presents a vision of systems engineering where precise specification of requirements, structure, and

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to define the
properties of entire
systems while
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agile methods with
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needs, and forward
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interface definition
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which the quality
and correctness of
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system architectural
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Details how to
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specification data to
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Includes detailed examples from across industries taken through their stages, including the "Waldo" industrial exoskeleton as a complex system Model-Based Systems Engineering (MBSE), which tackles architecting

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and design of complex systems through the use of formal models, is emerging as the most critical component of systems engineering. This textbook specifies the two leading conceptual modeling languages,

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adaptability required
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global needs. With
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students and
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continue to receive a
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technologies for society, the coursework and expectations of most engineering programs eschew breadth and intellectual exploration to focus on consistent technological precision and study.

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Why this

dichotomy? While engineering will always need precise technological skill, the 21st century innovation economy demands a new professional perspective that recognizes the value of complex systems

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thinking, cross-
disciplinary
collaborations,
economic and
environmental
impacts
(sustainability), and
effective
communication to
global and
community leaders,
thus enabling

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engineers to consider

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of society's needs.

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at a superior
level in complex
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the highest levels of proficiency. However, more recent research has continued the search for better descriptions, and causal mechanisms that explain the

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figuring out the bevel and miter saw settings to a compound miter cut. Basically each of these times the corner's angles were not at a common true ninety degree angle, and or the

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spring angle
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spring angles

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The basic
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chart formats
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angle and the
opposite outside
corner angle
within three
hundred and

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sixty degrees.

Then the page is broken into nine rows of three with ten columns per each row.

Each of these columns contains a spring angles, with the answer to the bevel and miter saw

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The simplicity of this book is to look up the corner angle in degrees needed, search the numerical ordered columns to find the spring angle being used, and look at the

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bevel and miter
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below. All pages
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a specific piece of equipment such as a compound miter saw, it is designed around any piece of equipment that would accomplish the bevel and miter angles to

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complete any compound miter cut. Each of the material working charts are in six easy steps from handling the material, setting the direction of the bevel and miter angles, to making the cut,

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and which piece to save. These material working charts are also divided into two categories, first category is cutting crown moldings, and the second category is cutting

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miters. The difference between the two categories is ability to identify the top or bottom of the material. If a craftsman needs to keep track of the top or bottom,

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marking the edges of the material, (such as flat stock) the material is placed into the category cutting compound miters. When a compound miter saw is being used, instead of

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practices, and techniques into those systems and software engineering activities. The objective is to address security issues from a stakeholder protection needs, concerns, and requirements perspective and to use established

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engineering processes to ensure that such needs, concerns, and requirements are addressed with appropriate fidelity and rigor, early and in a sustainable manner throughout the life cycle of the system.

This book focuses on software architecture

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and the value of architecture in the development of long-lived, mission-critical, trustworthy software-systems. The author introduces and demonstrates the powerful strategy of “Managed Evolution,” along with the engineering best practice known as “Principle-based

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Architecting.” The book examines in detail architecture principles for e.g., Business Value, Changeability, Resilience, and Dependability. The author argues that the software development community has a strong responsibility to produce and

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operate useful, dependable, and trustworthy software. Software should at the same time provide business value and guarantee many quality-of-service properties, including security, safety, performance, and integrity. As Dr. Furrer states, "Producing

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dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality-of-service properties of the software-systems.” The book presents extensive coverage of such concepts as: Principle-Based

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Architecting Managed
Evolution Strategy
The Future Principles
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Legacy Software Mod
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Architecture
Principles for
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Principles for
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Architecture
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Dependability The text is supplemented with numerous figures, tables, examples and illustrative quotations. Future-Proof Software-Systems provides a set of good engineering practices, devised for integration into most software

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development processes dedicated to the creation of software-systems that incorporate Managed Evolution. This proceedings book reflects the alternative way of development of the modern global economic system. It sets evolutionary development in

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opposition to
revolutionary leap.
The search for the
best way to develop
the world economy in
the present and
future is carried out.
The social
environment and the
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development of the
modern global
economic system
have been explored.

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The features of training of personnel for the modern global economic system through the development of vocational education and training have been studied. Sustainable development, energy and food security have been identified as significant

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milestones of the progress of the modern global economic system. Innovations and digital technologies have been suggested as the drivers of growth and development of the modern global economic system. Consideration has been given to the

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institutional
framework and legal
groundwork for the
development of the
modern global
economic system.
The fundamentals
have been identified
and
recommendations
have been put
forward for improving
governmental
regulation, financial

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and capital investment support for integration in the modern global economic system. The book includes the best works based on the results of the 22nd International Research-to-Practice Conference “Current Issues of the Global Economy” which was held on June 19,

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2020, at the Peoples' Friendship University of Russia (PFUR) (Moscow, Russia) and the 14th National Research-to-Practice Conference "A New Paradigm of Social and Economic Development in the Age of Intelligent Machines," which was held on May 14-16, 2020 (Nizhny

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Novgorod, Russia),
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Ascent to Man,"
which was held on
May 21-22, 2020
(Krasnoyarsk,
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Research-to-Practice
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was held from
September 28, 2020,

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till October 1, 2020 (Komsomolsk-on-Amur), and the 15th National Research-to-Practice Conference “New Models of Behavior of Market Players in the Conditions of Digital Economy,” which was held on October 29–30, 2020, at Ufa State Oil Technical University, Institute

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of Economics and Service (Ufa, Russia). The target audience of the book consists of scholars studying the features of development of the global economic system at the present stage and the prospects for its future progress.

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simulation (M&S) supplies for managing systems complexity and investigating systems behaviors has made it a central activity in the development of new and existing systems. However, a handbook that provides

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individual disciplines, they are often developed in isolation. However, they address recurring problems common to all disciplines. The editors of this book tackled the challenge by recruiting key representatives

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from several communities, harmonizing the different perspectives derived from individual backgrounds, and lining them up with the book's vision. The result is a collection of M&S systems engineering

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examples that offer an initial means for cross-domain capitalization of the knowledge, methodologies, and technologies developed in several communities. These examples provide the pros and cons of the

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methods and techniques available, lessons learned, and pitfalls to avoid. As our society moves further in the information era, knowledge and M&S capabilities become key enablers for the engineering of complex systems

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