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objects reject
their users: a
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different types
of data; and
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*Advances in
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and algorithms have
dramatically
improved the ability to
simulate complex
processes*

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computationally.

Today's simulation capabilities offer the prospect of addressing questions that in the past could be addressed only by resource-intensive experimentation, if at all. Assessing the Reliability of Complex Models recognizes the

*ubiquity of
uncertainty in
computational
estimates of reality
and the necessity for
its quantification. As
computational science
and engineering have
matured, the process
of quantifying or
bounding
uncertainties in a
computational*

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*estimate of a physical
quality of interest has*

*evolved into a small
set of interdependent*

*tasks: verification,
validation, and*

*uncertainty of
quantification*

(VVUQ). In

*recognition of the
increasing importance*

*of computational
simulation and the*

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increasing need to assess uncertainties in computational results, the National Research Council was asked to study the mathematical foundations of VVUQ and to recommend steps that will ultimately lead to improved processes.

Assessing the
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*Reliability of
Complex Models
discusses changes in
education of
professionals and
dissemination of
information that
should enhance the
ability of future
VVUQ practitioners
to improve and
properly apply VVUQ
methodologies to*

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*difficult problems,
enhance the ability of
VVUQ customers to
understand VVUQ
results and use them
to make informed
decisions, and
enhance the ability of
all VVUQ
stakeholders to
communicate with
each other. This
report is an essential*

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direct, authentic ... a

seamless weave of

experience, anecdote,

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of dependable fault-tolerant systems and features commentary on the fields studied by Prof. Kishor S. Trivedi during his distinguished career. Analyzing system evaluation as a fundamental tenet in the design of modern systems, this book uses performance and

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designers and practitioners must face in order to ensure the reliability, availability, and performance of systems, with special focus on their dynamic behaviors and dependencies, and provides system researchers, performance analysts,

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and practitioners with the tools to address these challenges in their work. With contributions from Prof. Trivedi's former PhD students and collaborators, many of whom are internationally recognized experts, to honor him on the occasion of his 70th

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birthday, this book serves as a valuable resource for all engineering disciplines, including electrical, computer, civil, mechanical, and industrial engineering as well as production and manufacturing.

*Model Checking,
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must make a
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acquisition
question, one
component near
the end of the
process is
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to determine if a
system meets the
requirements for
effectiveness and
suitability in
realistic battlefield
settings. Problems

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interpretation is a
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abstractions,
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relational static
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applications covered include program semantics, program specification and verification, program dynamic and static analysis of numerical properties and of such symbolic properties as dataflow analysis,

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developments in the calibration of analytical methods and techniques and their subsequent validation. Section 1, "Introduction," contains the Introductory Chapter, a broad overview of analytical calibration and

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validation, and a
brief synopsis of the
following chapters.

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presents five
chapters covering
calibration schemes
for some modern
analytical methods
and techniques.

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this section provides a segue into Section 3, "Validation Approaches," which contains two chapters on validation procedures and parameters. This book is a valuable source of scientific information for

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complex
systems. Model
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technology that
provides an
algorithmic
means of
determining
whether an**

**abstract model—
representing,
for example, a
hardware or
software
design—satisfies
a formal
specification
expressed as a
temporal logic
formula. If the
specification is**

**not satisfied,
the method
identifies a
counterexample
execution that
shows the
source of the
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many major
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thrusts the reader,
showing us how
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*of many challenges in
system design today.*

*Difficult issues need to
be figured out, such as
scalability,
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reliability, efficiency,
and maintainability.
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an overwhelming
variety of tools,
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different tools*

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tolerance, and
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focusing their energy on one thing at a time people are living more rewarding lives by building their careers, strengthening their finances, losing weight and getting in shape, deepening their faith, and nurturing stronger marriages and personal relationships. YOU

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that overwhelmed
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automated technique for finding flaws in hardware and software; with extensive examples and both practical and theoretical exercises. Our growing dependence on increasingly complex computer and software systems necessitates the development of

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formalisms, techniques, and tools for assessing functional properties of these systems.

One such technique that has emerged in the last twenty years is model checking, which systematically (and automatically) checks whether a model of a given system satisfies a

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desired property such as deadlock freedom, invariants, and request-response properties. This automated technique for verification and debugging has developed into a mature and widely used approach with many applications. Principles of Model Checking offers a

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comprehensive
introduction to model
checking that is not
only a text suitable for
classroom use but
also a valuable
reference for
researchers and
practitioners in the
field. The book begins
with the basic
principles for
modeling concurrent
and communicating

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systems, introduces different classes of properties (including safety and liveness), presents the notion of fairness, and provides automata-based algorithms for these properties. It introduces the temporal logics LTL and CTL, compares them, and covers algorithms for

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verifying these logics, discussing real-time systems as well as systems subject to random phenomena. Separate chapters treat such efficiency-improving techniques as abstraction and symbolic manipulation. The book includes an extensive set of examples (most of

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which run through several chapters) and a complete set of basic results accompanied by detailed proofs. Each chapter concludes with a summary, bibliographic notes, and an extensive list of exercises of both practical and theoretical nature.

Mathematical and

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