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development of microgrid technologies. In addition to basic facility and network design concepts, it covers related subjects including power supply programming and energy optimization, which means it can serve as a single volume reference to

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The balance of  
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explains methods that  
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availability of complex systems, including simulation-based methods. The increasing digitization of mechanical processes driven by Industry 4.0 increases the interaction between machines and monitoring and control systems, leading to increases in system complexity. For

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those systems the reliability and availability analyses are increasingly challenging, as the interaction between machines has become more complex, and the analysis of the flexibility of the production systems to respond to machinery failure may require advanced simulation

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techniques. This book fills a gap on how to deal with such complex systems by linking the concepts of systems reliability and asset management, and then making these solutions more accessible to industry by explaining the availability analysis of complex systems based on simulation



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methods that  
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Explains how to use a  
monitoring database  
to perform important  
tasks including an  
update of complex  
systems reliability  
Shows how to  
diagnose probable  
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Systematic Approach offers a comprehensive description of a method for providing safe and cost effective healthcare technology management (HTM). The approach is directed to enhancing the value (benefit in relation to cost) of the medical equipment assets of healthcare

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organizations to best support patients, clinicians and other care providers, as well as financial stakeholders. The authors propose a management model based on interlinked strategic and operational quality cycles which, when fully realized, delivers a comprehensive and

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transparent methodology for implementing a HTM programme throughout a healthcare organization. The approach proposes that HTM extends beyond managing the technology in isolation to include advancing patient care through supporting the application of the

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technology. The book shows how to cost effectively manage medical equipment through its full life cycle, from acquisition through operational use to disposal, and to advance care, adding value to the medical equipment assets for the benefit of patients and stakeholders. This book will be of interest

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to practicing clinical engineers and to students and lecturers, and includes self-directed learning questions and case studies. Clinicians, Chief Executive Officers, Directors of Finance and other hospital managers with responsibility for the governance of medical equipment will

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individual  
excellence and  
achievement in the  
clinical engineering  
and biomedical  
engineering fields.  
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of Clinical  
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Advocacy Award.  
As the biomedical  
engineering field  
expands  
throughout the  
world, clinical  
engineers play an  
evermore  
important role as  
the translator  
between the  
worlds of the

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medical,  
engineering, and  
business  
professionals.

They influence  
procedure and  
policy at research  
facilities,  
universities and  
private and  
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agencies including

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the Food and Drug Administration and the World Health Organization.

Clinical Engineers were key players in calming the hysteria over electrical safety in the 1970's and Y2K at the turn of the century and

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for medical safety.  
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together all the  
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Engineering. It  
provides the  
reader with  
prospects for the  
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engineering as

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well as guidelines  
and standards for  
best practice  
around the world. \*

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are the safety and  
quality facilitators in  
all medical  
facilities.

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contains a  
selection of



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hoping to make it  
in the real world.  
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students of  
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subjects are  
finding that their  
success depends  
as much on  
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management skills and understanding operational systems as on their technical expertise. This book offers students that all-important firm foundation in management training.

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used in managing people and other resources. Part 1 includes a series of chapters on management applications and concepts, starting with basic issues such as ‘ What is a business? ’ and ‘ What is

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management? ',  
continuing through  
management of  
quality, materials  
and new product  
development and  
concluding with  
examples of  
successful  
companies who  
provide good  
models of

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management. Part  
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challenge than  
your former highly  
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management  
consultant Michael  
K. Badawy  
couldn't agree  
more. He says,  
"The primary  
problems of

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throughout  
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that surround

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as a great  
reference  
material.

In a  
competitive and  
complex world,



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where requirements from different fields are ever-growing, organizations need to be responsible for their actions in their respective markets.

However, this

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responsibility must not be deemed one-time-only but instead should be seen as a continuous process, under which organizations ought to effectively use the different

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resources to  
allow them to  
meet the  
present and  
future

requirements of  
their  
stakeholders.

Having a  
significant  
influence on  
their  
collaborators

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performance,  
the role  
developed by  
managers and  
engineers is  
highly relevant  
to the  
sustainability  
of an  
organizations  
success.

Conscious of  
this reality,

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this book  
contributes to  
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related to  
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Particular  
focus is given  
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that needs to  
be developed by  
managers and  
engineers, as  
well as to the  
future  
direction of  
this field of  
research.

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*This book is written for all technologists and engineers. To those unfamiliar with forecasting it may appear a somewhat esoteric activity with little relevance to the*



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*everyday technical concerns of the reader. This is not so. The aim of this book is to show how forecasting can improve the quality of technical decision making.*

*Furthermore, this can be accomplished without the use of highly sophisticated techniques which can*

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*only be applied by  
specialists. The  
approaches  
described in this  
book can be easily  
understood and used  
by all its readers.  
The techniques of  
forecasting for  
technical decisions  
have been developed  
over several decades.  
Unfortunately they  
are not widely used*

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*in industry in the  
West where they  
were developed  
although they are  
much more widely  
used in Japan. One of  
the reasons for this  
may be that many of  
the methods appear  
highly complex and  
do not appear in the  
text books read by  
most technologists.  
The word*

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*"forecasting" is emotive to many people who reject the concept on the grounds that it will never be possible to forecast an uncertain future. Whilst this contains an element of truth it ignores the valuable contribution that a systematic analysis of the future can make to a wide*

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*range of decisions. The aim of this book is to describe the most useful methods in terms that all technologists can apply. It is not claimed that they will lead to the making of the "right" decisions. However, the experience of the author in applying them in a range of*

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*industries shows  
clearly that they can  
assist in making  
better decisions.*

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addresses project  
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*essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition,*

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*scheduling,  
budgeting, risk  
analysis, control,  
project selection and  
portfolio  
management,  
program  
management, project  
organization, and all-  
important "people"  
aspects—project  
leadership, team  
building, conflict  
resolution, and stress*



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*management. The systems development cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program, or task force. The authors focus on the ultimate purpose of*

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*project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This sixth edition features: updates*

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*throughout to cover  
the latest  
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project procurement  
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contracts; an  
expansion of case  
study coverage  
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*review questions and  
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accessible approach,  
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resource and  
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courses, as well as  
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knowledge for this  
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technology  
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medicine, and  
prospects and  
guidelines on the  
future of clinical  
engineering. As the  
biomedical*

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expands throughout  
the world, clinical  
engineers play an  
increasingly  
important role as  
translators between  
the medical,  
engineering and  
business professions.  
In addition, they  
influence procedures  
and policies at  
research facilities,*

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private and  
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explores their  
current and  
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comprehensive, and  
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*prepares  
engineers to  
fulfill their  
managerial res  
ponsibilities,  
acquire useful  
business  
perspectives,  
and take on  
the much-  
needed  
leadership*



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*roles to meet  
the challenges  
in the new  
millennium.*

*Value  
addition,  
customer  
focus, and  
business  
perspectives  
are emphasized  
throughout.*

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discussions of  
leadership  
attributes,  
steps to  
acquire these  
attributes,  
the areas  
engineering  
managers are  
expected to*

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*add value, the  
web-based  
tools which  
can be*

*aggressively  
applied to  
develop and  
sustain  
competitive  
advantages,  
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*global*

*regions, and*

*the*

*preparations*

*required for*

*engineering*

*managers to*

*become global*

*leaders. The*

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three major  
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management,  
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*engineering  
management in  
the new  
millennium.*

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edition  
refocuses on  
the new  
strategy for  
science,  
technology,  
engineering,*

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*and math  
(STEM)  
professionals  
and managers  
to meet the  
global  
challenges  
through the  
creation of  
strategic diff  
erentiation  
and*

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*operational  
excellence.*

*Major  
revisions*

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chapter on  
creativity and  
innovation, a  
new chapter on  
operational  
excellence,  
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the chapters  
on financial  
accounting and  
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strategy for  
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edition  
strives for  
achieving the*

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strong*

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dynamic and  
challenging  
marketplace.*

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in this book  
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engineering  
managers play  
key leadership  
roles in their  
organizations  
by optimally  
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*shows the*

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world. At the  
same time, it  
addresses the  
pressing issue  
of how  
environmental  
aspects are  
interwoven  
with*

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challenges*

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definitions,  
inconsistent  
use of  
terminology,  
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variety, and  
conceptual  
fuzziness. It  
has been  
written for*



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management for  
those without  
prior  
knowledge of  
management or  
commerce,  
emphasizing*

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the nature of  
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digitalization  
and  
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planning,  
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analysis,  
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flows of  
money, and  
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projects. This  
book is aimed  
at a wide*

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and  
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It will be  
especially  
useful to*



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more. It will  
help student*

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final parts of  
their degree  
courses and,  
most  
importantly,  
with  
managerial  
situations*

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*later in their  
careers. For  
instructors,  
who may not  
have a  
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background,  
this book  
offers content  
for a self-  
contained year-  
long course in*

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level. In  
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has been  
developed for  
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requirements  
that include a  
taught element  
in management,  
such as the UK  
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Reliability  
technology  
plays an  
important role  
in the present  
era of  
industrial  
growth,  
optimal  
efficiency,  
and reducing*

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*all branches.  
It discusses i  
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ry solutions  
to complex  
problems using  
different  
approaches to  
save money,  
time, and  
manpower. It  
presents*



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of coping with  
uncertainty in  
reliability  
optimization  
through the  
usage of  
various  
techniques  
such as soft  
computing,  
fuzzy*

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uncertainty,  
and  
maintenance  
scheduling.  
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and real-world  
examples are  
presented  
along with  
applications  
that can be*

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*used in  
practice. This  
book will be  
useful to  
researchers,  
academicians,  
and  
practitioners  
working in the  
area of  
reliability  
and systems*

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*studies and  
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*applications  
to be used in  
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*numerous*

*examples to*

*illustrate*

*theoretical*

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*results.*  
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explores the  
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methods of the  
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process in  
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field. It  
focuses on the

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technology in  
the field of  
education. It  
also provides  
a platform to  
academicians  
and educationa  
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*book includes  
specific  
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in engineering  
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offers case  
studies and  
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practices  
which also  
include those  
used in*



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and during the  
COVID-19  
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bodies,  
directions on  
cost-effective*

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and it  
discusses  
advanced  
technologies  
such as VR and  
augmented  
reality used  
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intended for  
research*

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field as well  
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applications in one  
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including design,  
mechanical, and  
manufacturing  
engineers are  
frequently involved  
in economics-  
related decisions,  
whether directly**

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commercial  
context of  
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chapter questions  
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effective, less  
costly, and easier  
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***suited to today's***

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***sociotechnical,***

***software-intensive***

***world—based on***

***modern systems***

***thinking and***

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current  
techniques.***

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of causality are  
inadequate,  
Leveson presents a  
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model of causation  
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**and Processes, or  
STAMP), then  
shows how the  
new model can be  
used to create  
techniques for  
system safety  
engineering,  
including accident  
analysis, hazard  
analysis, system  
design, safety in  
operations, and  
management of**

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most challenging  
systems problems.  
Grounded in  
systems thinking  
and based on  
sound systems  
engineering  
principles, the  
systems decisions  
process (SDP)  
leverages multiple  
objective decision  
analysis, multiple***

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**attribute value  
theory, and value-  
focused thinking to  
define the  
problem, measure  
stakeholder value,  
design creative  
solutions, explore  
the decision trade  
off space in the  
presence of  
uncertainty, and  
structure  
successful solution**

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analysis; facilities  
design and  
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allocation;  
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industry and  
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derive maximum  
utility in the  
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(HTM) system  
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challenges,  
current models  
of management  
and  
organization  
of technology  
in hospitals  
still has  
evolved over  
those*

*established  
40-50 years  
ago, according  
to totally  
different  
circumstances  
and  
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available now.  
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*model of  
management and  
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which requires  
a re-  
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*appropriate  
levels of  
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effectiveness,  
efficiency,  
safety and  
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*presents best*

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resources, as  
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customer  
'pull' and  
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'push' . To  
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*organizations*  
*are constantly*  
*innovating*  
*with new*  
*technology*  
*tools and*  
*techniques to*

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*improve  
process  
performance in  
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*projects.*

*Their*

*management*

*challenge is  
to save time,  
reduce cost  
and increase  
quality and*



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*Risk  
management has  
recently  
evolved as an  
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method of  
managing both  
projects and  
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Risk is*

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*inherent in  
any project,  
as managers  
need to plan  
projects with  
minimal  
knowledge and  
information,  
but its  
management  
helps managers  
to become*

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*proactive  
rather than  
reactive.*

*Hence, it not  
only increases  
the chance of  
project  
achievement,  
but also helps  
ensure better  
performance  
throughout its*

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*operations  
phase. Various  
qualitative  
and*

*quantitative  
tools are  
researched  
extensively by  
academics and  
routinely  
deployed by  
practitioners*

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*for managing  
risk. These  
have  
tremendous  
potential for  
wider  
applications.  
Yet the  
current  
literature on  
both the  
theory and*

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*scattered.*

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*emphasize risk  
management  
theory but  
lack practical  
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*and give  
little  
guidance on  
the*

*application of  
those  
theories. This  
book showcases  
a number of  
effective  
applications  
of risk*

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who have engineering backgrounds. It focuses these basic concepts on issues of measuring and managing enterprise value. Thus, after defining enterprise value, the book

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begins by explaining the ways and means of measurement. It then takes up financial measurement, describing and analyzing the typologies of financial indicators while

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illustrating their advantages and disadvantages. After focusing on measuring enterprise value, the second section takes up managing that value. Like the first, it pursues a double view: using indicators

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for internal  
control while  
employing them to  
analyze other  
companies. If  
engineering  
project managers  
possess a source  
of quantitative and  
qualitative  
information about  
business



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management,  
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Explains how main  
performance  
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related to the

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value of the  
company Reveals  
how to assess the  
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companies in  
relation to their  
financial goals and  
mechanisms (e.g.,  
equity, debt, and  
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key information  
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enterprises to  
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analysis  
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disciplines of

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knowledge  
engineering and  
knowledge  
management are  
closely tied.

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engineering deals  
with the  
development of  
information  
systems in which  
knowledge and



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reasoning play pivotal roles. Knowledge management, a newly developed field at the intersection of computer science and management, deals with knowledge as a key resource in

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such systems pose great organization as well as technical challenges. The book covers in an integrated fashion the complete route from corporate knowledge management, through

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knowledge  
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knowledge plays  
an important role  
stand to benefit  
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organization, and  
all-important  
"people" aspects-  
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policy as well as how to schedule a production-driven, equipment-intensive project that achieves target production rates and meets target equipment-related unit costs and profits. The book includes a

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matrix for the  
selection of  
equipment and  
identifies

common pitfalls of  
project equipment  
selection and how  
to avoid them. It  
describes how to  
develop an OSHA  
job safety analysis  
for an equipment-

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intensive project,  
making this  
sometimes  
onerous but  
always essential  
task easier. The  
authors' diverse  
and broad  
experience makes  
this a book that  
ranges from the  
rigorous

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mathematical  
analysis of  
equipment  
operations to the  
pragmatic  
discussion of the  
equipment  
maintenance  
programs needed  
to guarantee that  
the production  
predicted in a cost

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estimate occurs.