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***Technical
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Digital technology now
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enables unparalleled
functionality and
flexibility in the capture,
processing, exchange, and
output of color images. But
harnessing its potential
requires knowledge of color
science, systems, processing

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algorithms, and device characteristics-topics drawn from a broad range of disciplines. One can acquire the requisite background with an armload of physics, chemistry, engineering, computer science, and

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mathematics books and journals- or one can find it here, in the Digital Color Imaging Handbook.

Unprecedented in scope, this handbook presents, in a single concise and authoritative publication,

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the elements of these diverse areas relevant to digital color imaging. The first three chapters cover the basics of color vision, perception, and physics that underpin digital color imaging. The remainder of

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the text presents the technology of color imaging with chapters on color management, device color characterization, digital halftoning, image compression, color quantization, gamut mapping,

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computationally efficient transform algorithms, and color image processing for digital cameras. Each chapter is written by world-class experts and largely self-contained, but cross references between chapters

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reflect the topics' important interrelations. Supplemental materials are available for download from the CRC Web site, including electronic versions of some of the images presented in the book.

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AR 700-141 08/13/2007

HAZARDOUS MATERIALS
INFORMATION RESOURCE SYSTEM

, Survival Ebooks

Human Factors Handbook for
Process Plant Operations

Provides clear and simple
instructions for integrating

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Human Factors principles and practices in the design of processes and work tasks
Human Factors, the science of interaction between humans and other elements of a system, draws from disciplines such as

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psychology, ergonomics, anthropometrics, and physiology to understand how and why people behave and perform as they do—and how best to support them in performing tasks. The goals of the Human Factors

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approach are to improve human reliability, minimize the risk from human error, and optimize the working environment, human wellbeing, and overall system performance. Human Factors Handbook for Process

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Plant Operations guides supervisors, managers, and engineers on incorporating Human Factors principles and practices into plant maintenance and operations. With thorough and accessible coverage of all Human

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Factors topics of relevance to process industries, this easy-to-use handbook uses real-world anecdotes and case studies to demonstrate effective training and learning, task planning, communications, emergency

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response, risk and error management, and more. Throughout the text, the authors offer valuable insights into why people make mistakes while providing advice on how to help workers perform their

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process operational tasks successfully. Explains all essential Human Factors concepts and knowledge with clear descriptions and illustrative examples Offers actionable advice and models of good practice that can be

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applied to design, process
operations, start-ups and
shut-downs, and maintenance
Addresses job aids,
equipment design,
competence, task support,
non-technical skills,
working with contractors,

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and managing change
Discusses how lack of Human
Factors considerations
during the engineering
design phase can adversely
affect safety and
performance Describes how to
use indicators to both

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recognize and learn from human error and performance issues Written by highly experienced operating and maintenance personnel, Human Factors Handbook for Process Plant Operations is an indispensable resource for

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everyone involved with
defining, planning,
training, and managing
process operations,
maintenance, and emergency
response in the food,
pharmaceutical, chemical,
petroleum, and refining

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industries. The missions of both the CCPS and EI include developing and disseminating knowledge, skills and good practices to protect people, the environment, and property by bringing the best knowledge and practices

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to industry, academia,
governments and the public
around the world through
collective wisdom, tools,
training and expertise. The
CCPS, an industrial
technology alliance of the
American Institute of

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Chemical Engineers (AIChE),
has been at the forefront of
documenting and sharing
important process safety
risk assessment
methodologies for more than
35 years and has published
over 100 books in its

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process safety guidelines
and process safety concept
book series. The EI's
Technical Work Program
addresses the depth and
breadth of the energy sector
from fuels and fuels
distribution to health and

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safety, sustainability and the environment. The EI program provides cost-effective, value-adding knowledge on key current and future international issues affecting those in the energy sector.

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This book focuses on the practical application of good clinical practice (GCP) fundamentals and provides insight into roles and responsibilities included in planning, executing, and analyzing clinical trials.

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The authors describe the design of quality into clinical trial planning and the application of regulatory, scientific, administrative, business, and ethical considerations. Describes the design of

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quality into the clinical
trial planning Has end-of-
chapter questions and
answers to check learning
and comprehension Includes
charts that visually
summarize the content and
allow readers to cross-

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reference details in
relevant chapters Offers a
companion website containing
supplemental training
resources

Smart Zero-energy Buildings
and Communities for Smart
Grids

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Standards, Management, and
Technology

Information Assurance and
Security Ethics in Complex
Systems: Interdisciplinary
Perspectives

The Essential Toolbox for
Young Engineers

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The Mathematical-Function
Computation Handbook
National Forest System Land
Management Planning
Kryger's Principles and
Practice of Sleep Medicine -
E-Book

CMMI® for Acquisition (CMMI-

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ACQ) describes best practices for the successful acquisition of products and services. Providing a practical framework for improving acquisition processes, CMMI-ACQ addresses the growing trend in business and government for

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organizations to purchase or outsource required products and services as an alternative to in-house development or resource allocation. Changes in CMMI-ACQ Version 1.3 include improvements to high maturity process areas,

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improvements to the model architecture to simplify use of multiple models, and added guidance about using preferred suppliers. CMMI® for Acquisition, Second Edition, is the definitive reference for CMMI-ACQ Version

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1.3. In addition to the entire revised CMMI-ACQ model, the book includes updated tips, hints, cross-references, and other author notes to help you understand, apply, and quickly find information about the content of the acquisition process

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areas. The book now includes more than a dozen contributed essays to help guide the adoption and use of CMMI-ACQ in industry and government. Whether you are new to CMMI models or are already familiar with one or more of them,

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you will find this book an essential resource for managing your acquisition processes and improving your overall performance. The book is divided into three parts. Part One introduces CMMI-ACQ in the broad

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context of CMMI models, including essential concepts and useful background. It then describes and shows the relationships among all the components of the CMMI-ACQ process areas, and explains paths to the adoption and use of the

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model for process improvement and benchmarking. Several original essays share insights and real experiences with CMMI-ACQ in both industry and government environments. Part Two first describes generic goals and

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generic practices, and then details the twenty-two CMMI-ACQ process areas, including specific goals, specific practices, and examples. These process areas are organized alphabetically and are tabbed by process area acronym to facilitate

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quick reference. Part Three provides several useful resources, including sources of further information about CMMI and CMMI-ACQ, acronym definitions, a glossary of terms, and an index. Information Assurance and Security

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Ethics in Complex Systems: Interdisciplinary Perspectives offers insight into social and ethical challenges presented by modern technology. Aimed at students and practitioners in the rapidly growing field of information assurance and

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security, this book address issues of privacy, access, safety, liability and reliability in a manner that asks readers to think about how the social context is shaping technology and how technology is shaping social context and, in so

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doing, to rethink conceptual boundaries.

Offering today's most authoritative, comprehensive coverage of sleep disorders, Kryger's Principles and Practice of Sleep Medicine, 7th Edition, is a must-have resource for

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sleep medicine specialists, fellows, trainees, and technicians, as well as pulmonologists, neurologists, and other clinicians who see patients with sleep-related issues. It provides a solid understanding of underlying basic science as well as

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complete coverage of emerging advances in management and treatment for a widely diverse patient population. Evidence-based content, hundreds of full-color illustrations, and a wealth of additional resources online help

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you make well-informed clinical decisions and offer your patients the best possible care. Contains new chapters on sleep in intersex and transgender individuals; sleep telemedicine and remote PAP adherence monitoring; and sleep

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and the menstrual cycle, as well as increased coverage of treatment and management of pediatric patients. Includes expanded sections on pharmacology, sleep in individuals with other medical disorders, and methodology.

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Discusses updated treatments for sleep apnea and advancements in CPAP therapy. Offers access to 95 video clips online, including expert interviews and sleep study footage of various sleep disorders. Meets the needs of practicing clinicians as

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well as those preparing for the sleep medicine fellowship examination or recertification exams, with more than 950 self-assessment questions, answers, and rationales online. Enhanced eBook version included with

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purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

This book describes in contributions by scientists and practitioners the development of scientific concepts,

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technologies, engineering techniques and tools for a service-based society. The focus is on microservices, i.e cohesive, independent processes deployed in isolation and equipped with dedicated memory persistence

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tools, which interact via messages. The book is structured in six parts. Part 1 “Opening” analyzes the new (and old) challenges including service design and specification, data integrity, and consistency management and provides the

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introductory information needed to successfully digest the remaining parts. Part 2 “Migration” discusses the issue of migration from monoliths to microservices and their loosely coupled architecture. Part 3 “Modeling” introduces a

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catalog and a taxonomy of the most common microservices anti-patterns and identifies common problems. It also explains the concept of RESTful conversations and presents insights from studying and developing two further

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modeling approaches. Next , Part 4 is dedicated to various aspects of “Development and Deployment”. Part 5 then covers “Applications” of microservices, presenting case studies from Industry 4.0, Netflix, and customized SaaS examples.

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Eventually, Part 6 focuses on “Education” and reports on experiences made in special programs, both at academic level as a master program course and for practitioners in an industrial training. As only a joint effort

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between academia and industry can lead to the release of modern paradigm-based programming languages, and subsequently to the deployment of robust and scalable software systems, the book mainly targets researchers in academia

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and industry who develop tools and applications for microservices.

Collecting, Analyzing, and

Presenting Usability Metrics

Concepts, Methodologies, Tools

and Applications

Integrating a Usable Security

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Protocol into User Authentication
Services Design Process
Energy Efficiency in Domestic
Appliances and Lighting
Senior Design Projects in
Mechanical Engineering
The Specification PEARL Approach

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Science and Engineering
**Distributed Applications and
Interoperable Systems17th IFIP WG
6.1 International Conference, DAIS
2017, Held as Part of the 12th
International Federated Conference
on Distributed Computing
Techniques, DisCoTec 2017,**

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**Neuchâtel, Switzerland, June 19–22,
2017, ProceedingsSpringer**

**Smart zero-energy buildings and
communities have a major role to
play in the evolution of the electric
grid towards alignment with carbon
neutrality policies. The goal to
reduce greenhouse gas emissions**

in the built environment can be pursued through a holistic approach, including the drastic reduction of buildings' energy consumption. The state-of-the-art in this field relates, on the one hand, to design methodologies and innovative technologies which aim

to minimize the energy demand at the building level. On the other hand, the development of information and communication technologies, along with the integration of renewable energy and storage, provide the basis for zero and positive energy buildings and

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communities that can produce, store, manage and exchange energy at a local level. This book provides a structured and detailed insight of the state-of-the-art in this context based on the analysis of real case studies and applications. Encompassing all occupants of

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**aircraft and spacecraft—passengers
and crew, military and
civilian—Fundamentals of
Aerospace Medicine, 5th Edition,
addresses all medical and public
health issues involved in this
unique medical specialty.
Comprehensive coverage includes**

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everything from human physiology under flight conditions to the impact of the aviation industry on public health, from an increasingly mobile global populace to numerous clinical specialty considerations, including a variety of common diseases and risks

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emanating from the aerospace environment. This text is an invaluable reference for all students and practitioners who engage in aeromedical clinical practice, engineering, education, research, mission planning, population health, and operational support.

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This volume constitutes the refereed proceedings of the International Conference on Digital Enterprise and Information Systems, held in London during July 20 - 22, 2011. The 70 revised full papers presented were carefully reviewed and selected. They are

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**organized in topical sections on
cryptography and data protection,
embedded systems and software,
information technology
management, e-business
applications and software, critical
computing and storage, distributed
and parallel applications, digital**

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**management products, image
processing, digital enterprises, XML-
based languages, digital libraries,
and data mining.**

Measuring the User Experience

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**HAZARDOUS MATERIALS
INFORMATION RESOURCE**

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**SYSTEM , Survival Ebooks
Antenna Design for Mobile Devices
11th International Conference,
WEBIST 2015, Lisbon, Portugal,
May 20-22, 2015, Revised Selected
Papers
Project Engineering
17th IFIP WG 6.1 International**

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**Conference, DAIS 2017, Held as
Part of the 12th International
Federated Conference on
Distributed Computing Techniques,
DisCoTec 2017, Neuchâtel,
Switzerland, June 19–22, 2017,
Proceedings
Guidelines for Process Integration**

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**and Product Improvement
CMMI® for Development
(CMMI-DEV) describes
best practices for the
development and
maintenance of products
and services across**

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their lifecycle. By
integrating essential
bodies of knowledge,
CMMI-DEV provides a
single, comprehensive
framework for
organizations to assess

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their development and
maintenance processes
and improve performance.
Already widely adopted
throughout the world for
disciplined, high-
quality engineering,

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**CMMI-DEV Version 1.3 now
accommodates other
modern approaches as
well, including the use
of Agile methods, Lean
Six Sigma, and
architecture-centric**

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development. CMMI® for
Development, Third
Edition, is the
definitive reference for
CMMI-DEV Version 1.3.
The authors have revised
their tips, hints, and

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**cross-references, which
appear in the margins of
the book, to help you
better understand,
apply, and find
information about the
content of each process**

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area. The book includes
new and updated
perspectives on CMMI-DEV
in which people
influential in the
model's creation,
development, and

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transition share brief
but valuable insights.
It also features four
new case studies and
five contributed essays
with practical advice
for adopting and using

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**CMMI-DEV. This book is
an essential
resource-whether you are
new to CMMI-DEV or are
familiar with an earlier
version-if you need to
know about, evaluate, or**

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put the latest version
of the model into
practice. The book is
divided into three
parts. Part One offers
the broad view of CMMI-
DEV, beginning with

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basic concepts of
process improvement. It
introduces the process
areas, their components,
and their relationships
to each other. It
describes effective

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paths to the adoption
and use of CMMI-DEV for
process improvement and
benchmarking, all
illuminated with fresh
case studies and helpful
essays. Part Two, the

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bulk of the book,
details the generic
goals and practices and
the twenty-two process
areas now comprising
CMMI-DEV. The process
areas are organized

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alphabetically by
acronym for easy
reference. Each process
area includes goals,
best practices, and
examples. Part Three
contains several useful

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resources, including
CMMI-DEV-related
references, acronym
definitions, a glossary
of terms, and an index.
With an A-Z format, this
encyclopedia provides

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easy access to relevant
information on all
aspects of biometrics.
It features
approximately 250
overview entries and 800
definitional entries.

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Each entry includes a definition, key words, list of synonyms, list of related entries, illustration(s), applications, and a bibliography. Most

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entries include useful
literature references
providing the reader
with a portal to more
detailed information.
There is an intrinsic
conflict between

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creating secure systems
and usable systems. But
usability and security
can be made synergistic
by providing
requirements and design
tools with specific

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usable security

principles earlier in
the requirements and
design phase. In certain
situations, it is
possible to increase
usability and security

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by revisiting design
decisions made in the
past; in others, to
align security and
usability by changing
the regulatory
environment in which the

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computers operate. This
book addresses creation
of a usable security
protocol for user
authentication as a
natural outcome of the
requirements and design

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phase of the
authentication method
development life cycle.
This text is meant for
introductory and
midlevel program and
project managers,

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Systems Engineering
(SE), Technology
Management (TM) and
Engineering Management
(EM) professionals. This
includes support
personnel who underpin

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and resource programs
and projects. Anyone who
wishes to understand
what SE, TM and EM are,
how they work together,
what their differences
are, when they should be

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used and what benefits
should be expected, will
find this text an
invaluable resource. It
will also help students
to understand the career
paths in innovation and

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entrepreneurship to
choose from. There is
considerable confusion
today on when and where
to use each discipline,
and how they should be
applied to individual

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circumstances. This text provides practitioners with the guidelines necessary to know when to use a specific discipline, how to use them and what results to

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expect. The text clearly shows how the disciplines retain focus of goals and targets, using cost, scope, schedule and risk to their advantage, while

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complying with and
informing investors,
oversight and those
related personnel who
eventually govern
corporate or government
decisions. It is more of

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an entry and midlevel
general overview
instructing the reader
how to use the
disciplines and when to
use them. To use them
all properly, more in-

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depth study is always
necessary. However, the
reader will know when to
start, where to go and
what disciplines to
employ depending on the
product, service,

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market, infrastructure,
system or service under
consideration. To date,
none of this is
available in existing
literature. All texts on
the subject stretch to

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try and cover all
things, which is simply
not possible, even with
the definitions assigned
by the three
disciplines.

Proceedings of the 10th

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**International Conference
(EEDAL' 19)
A Comprehensive
Compilation of
Decisions, Reports,
Public Notices, and
Other Documents of the**

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**Federal Communications
Commission of the United
States
Human Factors Handbook
for Process Plant
Operations
Building Performance**

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**Simulation for Design
and Operation
Telemedicine and E-
Health Services,
Policies, and
Applications:
Advancements and**

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Developments

**A Guide Book for
Teaching and Learning
Interoperability in
Healthcare Information
Systems: Standards,
Management, and**

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Technology

The Instrument and
Automation Engineers'
Handbook (IAEH) is the
Number 1 process automation
handbook in the world. The
two volumes in this greatly
expanded Fifth Edition deal

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with measurement devices and analyzers. Volume one, Measurement and Safety, covers safety sensors and the detectors of physical properties, while volume two, Analysis and Analysis, describes the measurement of

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such analytical properties as composition. Complete with 245 alphabetized chapters and a thorough index for quick access to specific information, the IAEH, Fifth Edition is a must-have reference for

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instrument and automation
engineers working in the
chemical, oil/gas,
pharmaceutical, pollution,
energy, plastics, paper,
wastewater, food, etc.
industries.

This book concentrates on a

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wide range of advances related to IT cybersecurity management. The topics covered in this book include, among others, management techniques in security, IT risk management, the impact of

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technologies and techniques
on security management,
regulatory techniques and
issues, surveillance
technologies, security
policies, security for
protocol management,
location management, GOS

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management, resource
management, channel
management, and mobility
management. The authors also
discuss digital contents
copyright protection, system
security management, network
security management,

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security management in
network equipment, storage
area networks (SAN)
management, information
security management,
government security policy,
web penetration testing,
security operations, and

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vulnerabilities management.
The authors introduce the
concepts, techniques,
methods, approaches and
trends needed by
cybersecurity management
specialists and educators
for keeping current their

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cybersecurity management knowledge. Further, they provide a glimpse of future directions where cybersecurity management techniques, policies, applications, and theories are headed. The book is a

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rich collection of carefully
selected and reviewed
manuscripts written by
diverse cybersecurity
management experts in the
listed fields and edited by
prominent cybersecurity
management researchers and

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specialists.

Conceptually, a database consists of objects and relationships. Object Relationship Notation (ORN) is a simple notation that more precisely defines relationships by combining

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UML multiplicities with uniquely defined referential actions. This book shows how ORN can be used in UML class diagrams and database definition languages (DDLs) to better model and implement relationships and

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thus more productively
develop database
applications. For the
database developer, it
presents many examples of
relationships modeled using
ORN-extended class diagrams
and shows how these

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relationships are easily mapped to an ORN-extended SQL or Object DDL. For the DBMS developer, it presents the specifications and algorithms needed to implement ORN in a relational and object DBMS.

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This book also describes tools that can be downloaded or accessed via the Web. These tools allow databases to be modeled using ORN and implemented using automatic code generation that adds ORN support to Microsoft SQL

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Server and Progress Object Store. Object Relationship Notation (ORN) for Database Applications: Enhancing the Modeling and Implementation of Associations is written for research scientists, research libraries,

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professionals, and advanced-level students in computer science.

Measuring the User Experience provides the first single source of practical information to enable usability

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professionals and product developers to effectively measure the usability of any product by choosing the right metric, applying it, and effectively using the information it reveals.

Authors Tullis and Albert

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organize dozens of metrics into six categories: performance, issues-based, self-reported, web navigation, derived, and behavioral/physiological. They explore each metric, considering best methods for

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collecting, analyzing, and presenting the data. They provide step-by-step guidance for measuring the usability of any type of product using any type of technology. This book is recommended for usability

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professionals, developers,
programmers, information
architects, interaction
designers, market
researchers, and students in
an HCI or HFE program. •
Presents criteria for
selecting the most

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appropriate metric for every case • Takes a product and technology neutral approach • Presents in-depth case studies to show how organizations have successfully used the metrics and the information

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they revealed

CMMI for Acquisition Version
1.3

Role of Seismic Testing
Facilities in Performance-
Based Earthquake Engineering
International Conference,
DEIS 2011, London, UK July

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20 - 22, 2011, Proceedings

Cyber Crime: Concepts,

Methodologies, Tools and

Applications

Advances in Cybersecurity

Management

Web Information Systems and

Technologies

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CMMI for Development

**Expanded and updated,
this practical guide is
a one-stop design
reference containing all
an engineer needs when
designing antennas**

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**Integrates state-of-the-
art technologies with a
special section for step-
by-step antenna design
Features up-to-date bio-
safety and
electromagnetic**

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**compatibility regulation
compliance and latest
standards Newly updated
with MIMO antenna
design, measurements and
requirements Accessible
to readers of many**

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**levels, from
introductory to
specialist Written by a
practicing expert who
has hired and trained
numerous engineers
"The increased use of**

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**underground space for
transportation systems
and the increasing
complexity and
constraints of
constructing and
maintaining above ground**

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**transportation
infrastructure have
prompted the need to
develop this technical
manual. This FHWA manual
is intended to be a
single-source technical**

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**manual providing
guidelines for planning,
design, construction and
rehabilitation of road
tunnels, and encompasses
various types of road
tunnels" -- P. ix.**

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This book introduces the concept of holistic design and development of cyber physical systems to achieve their safe and secure operation. It shows that

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**by following the
standards for embedded
system's safety and
using appropriate
hardware and software
components inherently
safe system's**

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**architectures can be
devised and certified.
While the standards
already enable testing
and certification of
inherently safe and
sound hardware, this is**

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**still not the case with
software. The book
demonstrates that
Specification
PEARL (SPEARL) addresses
this issue and proposes
appropriate solutions**

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**from the viewpoints of
software engineering as
well as concrete program
components. By doing so
it reduces the
complexity of cyber
physical systems design**

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**in an innovative way.
Three ultimate goals are
being followed in the
course of defining this
new PEARL standard,
namely: 1. simplicity
over complexity, 2.**

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**inherent real-time
ability, and 3.
conformity to safety
integrity and security
capability levels.
Although the standards
in electronic health**

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**records and general
healthcare services
continue to evolve, many
organizations push to
connect interoperability
with public service and
basic citizenship**

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**rights. This poses
significant technical
and organizational
challenges that are the
focus of many research
and standardization
efforts.**

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**Interoperability in
Healthcare Information
Systems: Standards,
Management and
Technology provides a
comprehensive collection
on the overview of**

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**electronic health
records and health
services
interoperability and the
different aspects
representing its outlook
in a framework that is**

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**useful for
practitioners,
researchers, and
decision-makers.
Improving Process Safety
and System Performance
Distributed Applications**

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**and Interoperable
Systems**

**Object Relationship
Notation (ORN) for
Database Applications
Clinical Diagnostic
Technology**

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Digital Color Imaging Handbook

SERIES Workshop

**Enhancing the Modeling
and Implementation of
Associations**

Threatening the safety of individuals,

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*computers, and entire networks, cyber
crime attacks vary in severity and type.
Studying this continually evolving
discipline involves not only
understanding different types of attacks,
which range from identity theft to
cyberwarfare, but also identifying*

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methods for their prevention. Cyber Crime: Concepts, Methodologies, Tools and Applications is a three-volume reference that explores all aspects of computer-based crime and threats, offering solutions and best practices from experts in software development,

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information security, and law. As cyber crime continues to change and new types of threats emerge, research focuses on developing a critical understanding of different types of attacks and how they can best be managed and eliminated.

"This book offers a comprehensive and

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*integrated approach to telemedicine by
collecting E-health experiences and
applications from around the world and
by exploring new developments and
trends in medical informatics"--*

*This book constitutes the proceedings of
the 17th IFIP International Conference*

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on Distributed Applications and Interoperable Systems, DAIS 2017, held in Neuchâtel, Switzerland, in June 2017. The 11 papers presented together with 4 short papers in this volume were carefully reviewed and selected from 23 submissions. The papers are organized in

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*topical sections on running system
efficiently, storing data smartly,
roaming in graph, building collaborative
services, and making things safe.
When used appropriately, building
performance simulation has the potential
to reduce the environmental impact of*

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the built environment, to improve indoor quality and productivity, as well as to facilitate future innovation and technological progress in construction. Since publication of the first edition of Building Performance Simulation for Design and Operation, the discussion has

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shifted from a focus on software features to a new agenda, which centres on the effectiveness of building performance simulation in building life cycle processes. This new edition provides a unique and comprehensive overview of building performance

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simulation for the complete building life cycle from conception to demolition, and from a single building to district level. It contains new chapters on building information modelling, occupant behaviour modelling, urban physics modelling, urban building energy

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*modelling and renewable energy systems
modelling. This new edition keeps the
same chapter structure throughout
including learning objectives, chapter
summaries and assignments. Moreover,
the book: • Provides unique insights into
the techniques of building performance*

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modelling and simulation and their application to performance-based design and operation of buildings and the systems which service them. • Provides readers with the essential concepts of computational support of performance-based design and operation. • Provides

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examples of how to use building simulation techniques for practical design, management and operation, their limitations and future direction. It is primarily intended for building and systems designers and operators, and postgraduate architectural,

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*environmental or mechanical
engineering students.*

*Technical Manual for Design and
Construction of Road Tunnels--civil
Elements*

Microservices

Programming Using the MathCW

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Code of Federal Regulations*

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Fifth Edition - Two Volume Set*

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*This book constitutes
revised selected papers
from the 11th
International Conference
on Web Information Systems
and Technologies, WEBIST
2015, held in Lisbon,*

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*Portugal, May 20-22, 2015,
organized by the Institute
for Systems and
Technologies of
Information, Control and
Communication (INSTICC),
and technically sponsored*

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*by the European Research
Center for Information
Systems (ERCIS). The
purpose of the WEBIST
series of conferences is
to bring together
researches, engineers and*

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*practitioners interested
in technological advances
and business applications
of web-based information
systems. The 17 full
papers presented in this
volume were carefully*

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*reviewed and selected
originally 115 paper
submissions. They were
organized in topical
sections names: web
interfaces and
applications; internet*

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*technology; society, e-
business and e-government;
web intelligence; and
mobile information
systems.*

*For newly hired young
engineers assigned to*

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*their first real
'project', there has been
little to offer in the way
of advice on 'where to
begin', 'what to look out
for and avoid', and 'how
to get the job done*

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*right'. This book gives
this advice from an author
with long experience as
senior engineer in
government and industry
(U.S. Army Corps of
Engineers and Exxon-*

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*Mobil). Beginning with
guidance on understanding
the typical organizational
structure of any type of
technical firm or company,
author Plummer
incorporates numerous*

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hands-on examples and provides help on getting started with a project team, understanding key roles, and avoiding common pitfalls. In addition, he offers unique help on

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*first-time experiences of
working in other countries
with engineering cultures
that can be considerably
different from the US.
Reviews essentials of
management for any new*

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*engineer suddenly thrust
into responsibility
Emphasizes skills that can
get you promoted—and
pitfalls that can get you
fired Expanded case study
to show typical evolution*

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*of a new engineer handed
responsibility for a major
design project*

*This highly comprehensive
handbook provides a
substantial advance in the
computation of elementary*

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*and special functions of
mathematics, extending the
function coverage of major
programming languages well
beyond their international
standards, including full
support for decimal*

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*floating-point arithmetic.
Written with clarity and
focusing on the C
language, the work pays
extensive attention to
little-understood aspects
of floating-point and*

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integer arithmetic, and to software portability, as well as to important historical architectures. It extends support to a future 256-bit, floating-point format offering 70

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*decimal digits of
precision. Select Topics
and Features: references
an exceptionally useful,
author-maintained MathCW
website, containing source
code for the book's*

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*software, compiled
libraries for numerous
systems, pre-built C
compilers, and other
related materials; offers
a unique approach to
covering mathematical-*

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*function computation using
decimal arithmetic;
provides extremely
versatile appendices for
interfaces to numerous
other languages: Ada, C#,
C++, Fortran, Java, and*

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Pascal; presupposes only basic familiarity with computer programming in a common language, as well as early level algebra; supplies a library that readily adapts for

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*existing scripting
languages, with minimal
effort; supports both
binary and decimal
arithmetic, in up to 10
different floating-point
formats; covers a*

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significant portion (with highly accurate implementations) of the U.S National Institute of Standards and Technology's 10-year project to codify mathematical functions.

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This highly practical text/reference is an invaluable tool for advanced undergraduates, recording many lessons of the intermingled history of computer hardware and

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*software, numerical
algorithms, and
mathematics. In addition,
professional numerical
analysts and others will
find the handbook of real
interest and utility*

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*because it builds on
research by the
mathematical software
community over the last
four decades.*

*Nowadays research in
earthquake engineering is*

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*mainly experimental and in
large-scale; advanced
computations are
integrated with large-
scale experiments, to
complement them and extend
their scope, even by*

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*coupling two different but
simultaneous tests.*

*Earthquake engineering
cannot give answers by
testing and qualifying
few, small typical
components or single large*

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prototypes. Besides, the large diversity of Civil Engineering structures does not allow drawing conclusions from only a few tests; structures are large and their seismic

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*response and performance
cannot be meaningfully
tested in an ordinary lab
or in the field. So,
seismic testing facilities
should be much larger than
in other scientific*

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fields; their staff has to be resourceful, devising intelligent ways to carry out simultaneously different tests and advanced computations. To better serve such a

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*mission European testing
facilities and researchers
in earthquake engineering
have shared their
resources and activities
in the framework of the
European project SERIES,*

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*combining their research
and jointly developing
advanced testing and
instrumentation techniques
that maximize testing
capabilities and increase
the value of the tests.*

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This volume presents the first outcomes of the SERIES and its contribution towards Performance-based Earthquake Engineering, i.e., to the most

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*important development in
Earthquake Engineering of
the past three decades.
The concept and the
methodologies for
performance-based
earthquake engineering*

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have now matured. However, they are based mainly on analytical/numerical research; large-scale seismic testing has entered the stage recently. The SERIES

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*Workshop in Ohrid (MK) in
Sept. 2010 pooled together
the largest European
seismic testing
facilities, Europe's best
experts in experimental
earthquake engineering and*

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*select experts from the
USA, to present recent
research achievements and
to address future
developments. Audience:
This volume will be of
interest to researchers*

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*and advanced practitioners
in structural earthquake
engineering, geotechnical
earthquake engineering,
engineering seismology,
and experimental dynamics,
including seismic*

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qualification.

*CMMI for Acquisition
Interdisciplinary
Perspectives
I - Z.*

*Fundamentals of Aerospace
Medicine*

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*IBM Journal of Research
and Development
A Universal Guide for
Implementing Good Clinical
Practice
The Fundamentals of
Clinical Research*