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This comprehensive handbook is a one-stop engineering reference. Covering data converter fundamentals, techniques,

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You

applications, and

beginning with the  
basic theoretical  
elements necessary  
for a complete  
understanding of data  
converters, this  
reference covers all  
the latest advances in  
the field. This text  
describes in depth the  
theory behind and the  
practical design of  
data conversion

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circuits as well as describing the different architectures used in A/D and D/A converters. Details are provided on the design of high-speed ADCs, high accuracy DACs and ADCs, and sample-and-hold amplifiers. Also, this reference covers voltage sources and current reference,

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noise-shaping coding, and sigma-delta converters, and much more. The book's 900-plus pages are packed with design information and application circuits, including guidelines on selecting the most suitable converters for particular applications. You'll find the very latest

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information on: · Data  
converter

fundamentals, such  
as key specifications,  
noise, sampling, and  
testing · Architectures  
and processes,  
including SAR, flash,  
pipelined, folding, and  
more · Practical  
hardware design  
techniques for mixed-  
signal systems, such  
as driving ADCs,

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buffering DAC  
outputs, sampling  
clocks, layout,  
interfacing, support  
circuits, and tools. ·  
Data converter  
applications dealing  
with precision  
measurement, data  
acquisition, audio,  
display, DDS,  
software radio and  
many more. The  
accompanying CD-

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ROM provides software tools for testing and analyzing data converters as well as a searchable pdf version of the text.

\* Brings together a huge amount of information impossible to locate elsewhere. \* Many recent advances in converter technology simply aren't covered

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in any other book. \* A must-have design reference for any electronics design engineer or technician.

Remote Sensing of the Terrestrial Water Cycle is an outcome of the AGU Chapman Conference held in February 2012. This is a comprehensive volume that examines



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the use of available

remote sensing

satellite data as well

as data from future

missions that can be

used to expand our

knowledge

in quantifying the

spatial and temporal

variations in the

terrestrial water cycle.

Volume highlights

include: - An in-depth

discussion of the

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global watercycle -

Approaches to  
various problems in  
climate,  
weather, hydrology,  
and agriculture -  
Applications of  
satellite remote  
sensing in measuring  
precipitation, surface  
water, snow,  
soilmoisture,  
groundwater,  
modeling, and

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dataassimilation - A description of the use of satellite data for accuratelyestimating and monitoring the components of the hydrologicalcycle - Discussion of the measurement of multiple geophysical variablesand properties over different landscapes on a temporal and

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aregional scale

Remote Sensing of

the Terrestrial Water

Cycle is a

valuable resource for

students and research

professionals in

the hydrology,

ecology, atmospheric

sciences, geography,

and geological

sciences

communities.

Covers a wide

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spectrum of remote sensing techniques as applied to earth and planetary atmospheres and surface sciences.

Examines the basic physics of wave/matter

interactions and techniques of remote sensing across the electromagnetic spectrum (UV, visible

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mm and microwave),  
and provides  
examples of major  
applications in the  
fields of geology,  
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Sensors Handbook  
brings together all

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and Radiation

Measurement volume  
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Contains contributions  
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instrumentation and  
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displacement,  
acoustics, flow and  
spot velocity,  
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sensors and  
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factors A concise and  
useful reference for  
engineers, scientists,  
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managers, and  
industry professionals

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involved in  
instrumentation and  
measurement  
research and  
development,  
Measurement,  
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Sensors Handbook,  
Second Edition:  
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Radiation  
Measurement  
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a greater  
understanding of  
advanced  
applications.

Classification  
Methods for Remotely  
Sensed Data  
The Invisible Rainbow  
Radar Micro-Doppler  
Signatures  
Race to Build the  
World's First Quantum  
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RF and Microwave

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Engineering

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Field Guide to Lidar

**This book highlights the essential theoretical and practical aspects of lightning, lightning protection, safety and education.**

**Additionally, several auxiliary topics that are required to understand the core**

**themes are also included. The main objective of the contents is to enlighten the scientists, researchers, engineers and social activists (including policy makers) in developing countries regarding the key information related**

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**to lightning and  
thunderstorms. A**

**majority of  
developing countries**

**are in tropics where  
the lightning**

**characteristics are  
somewhat different**

**from those in  
temperate regions.**

**The housing  
structures and power**

**/communication**

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**networks, and  
human behavioural  
patterns(that  
depends on socio-  
economic  
parameters) in these  
countries are also  
different from those  
in the developed  
world. As the  
existing books on  
similar themes  
address only those**



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scenarios in

developed countries,

this book serves a

vast spectrum of

readership in

developing world

who seek knowledge

in the principles of

lightning and a

practical guidance

on lightning

protection and safety

education.

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**"LiDAR technology and Systems is a tutorial book, covering LiDAR Technology. The introduction sets lidar in context, as one of many sensor technologies utilizing electro-magnetic radiation. LiDAR is in the optical and infrared**

wavelengths, and it is an active sensor, which collects reflected EM radiation. It is similar to more familiar passive EO/IR sensors in wavelength, and similar to radar in that it uses reflected radiation emitted by the sensor. The

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**second chapter goes  
the > 50 years of  
lidar history.**

**Chapter 3 covers the  
link budget - how  
much signal a  
LiDAR must emit in  
order to get a certain  
number of reflected  
photons back.**

**Chapter 4 discusses  
the rich  
phenomenology of**

**LiDAR. One of the strengths of LiDAR is its' diverse phenomenology's. As a result, there are many flavors of LiDAR. The most common is 3D imaging, but there are many other types of lidars, with different measurement**

**objectives. The next 4 chapters discuss components of a LiDAR. Chapter 5 discusses laser sources, chapter 6 LiDAR receivers, chapter 7 beam steering approaches, and chapter 8 LiDAR processing. The last 3 chapters are testing, metrics,**

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and applications.

**Chapter 11, the applications chapter, picks 4 popular applications and discusses these LiDARs, and how to build them, for these applications.**

**Chapter 11 as a result will repeats some information in earlier chapters, but**

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**in the context of a  
particular  
application"--**

**This book constitutes  
the proceedings of  
the 31st Australasian  
Joint Conference on  
Artificial  
Intelligence, AI 2018,  
held in Wellington,  
New Zealand, in  
December 2018. The  
50 full and 26 short**



**papers presented in  
this volume were  
carefully reviewed  
and selected from  
125 submissions. The  
paper were  
organized in topical  
sections named:  
agents, games and  
robotics; AI  
applications and  
innovations;  
computer vision;**

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**constraints and  
search; evolutionary  
computation;  
knowledge  
representation and  
reasoning; machine  
learning and data  
mining; planning  
and scheduling; and  
text mining and  
NLP.**

**This book provides a  
fundamental and**

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**practical**

**introduction to radio  
frequency and  
microwave  
engineering and  
physical aspects of  
wireless**

**communication In  
this book, the author  
addresses a wide  
range of radio-  
frequency and  
microwave topics**

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**with emphasis on  
physical aspects  
including EM and  
voltage waves,  
transmission lines,  
passive circuits,  
antennas, radio wave  
propagation. Up-to-  
date RF design tools  
like RF circuit  
simulation, EM  
simulation and  
computerized smith**

**charts, are used in various examples to demonstrate how these methods can be applied effectively in RF engineering practice. Design rules and working examples illustrate the theoretical parts. The examples are close to real world problems, so the**

**reader can directly transfer the methods within the context of their own work. At the end of each chapter a list of problems is given in order to deepen the reader's understanding of the chapter material and practice the new competences.**

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**Solutions are  
available on the  
author's website.**

**Key Features:**

**Presents a wide  
range of RF topics  
with emphasis on  
physical aspects e.g.  
EM and voltage  
waves, transmission  
lines, passive circuits,  
antennas Uses  
various examples of**

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**modern RF tools that  
show how**

**themethods can be  
applied productively  
in RF engineering  
practice**

**Incorporates various  
design examples**

**using circuit**

**andelectromagnetic  
(EM) simulation**

**software Discusses  
the propagation of**



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representation,  
theireffects, and  
their utilization in  
passive circuits and  
antennastructures  
Provides a list of  
problems at the end  
of each chapter  
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accompanying  
website containing  
solutions to**

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theproblems ([http://www.fh-dortmund.de/gustrau\\_rf\\_textbook](http://www.fh-dortmund.de/gustrau_rf_textbook))

This will be an invaluable textbook for bachelor and masters students on electrical engineering courses (microwave engineering, basic circuit theory and electromagnetic fields)

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, wireless  
communications).

**Early-stage RF practitioners, engineers (e.g. application engineer) working in this area will also find this book of interest.**

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and Fabrication**

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arch bridges are still  
a major part of the  
infrastructure in  
many countries.

Although this type  
of bridge has  
proven to be an  
efficient

construction type, it

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often poses the  
problem of  
insufficient  
numerical models of  
the load bearing  
behavior. Therefore  
the book introduces  
methods to adapt  
life loads and  
introduces different  
types of numerical  
models of the load  
resistance

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respectively. The

book continues with the introduction of specific damages and strengthening techniques. The book particularly focuses on the probabilistic safety assessment of historical arch bridges, for which often only limited

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structural data is  
available.

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readers back and  
forth through time  
and makes the past  
accessible to all  
families, students  
and the general  
reader and is an  
unprecedented  
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events in  
chronological order  
and a wealth of  
informative  
knowledge about  
the rise and fall of  
empires, major  
scientific  
breakthroughs,  
groundbreaking  
inventions, and  
monumental  
moments about

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LiDAR Technologies  
and Systems

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Geomatics is a  
neologism, the use of  
which is becoming  
increasingly

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widespread, even if it is not still universally accepted. It includes several disciplines and techniques for the study of the Earth's surface and its environments, and computer science plays a decisive role. A more meaningful and appropriate expression is G-spatial Information or

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GeoInformation. Geo-spatial Information embeds topography in its more modern forms (measurements with electronic instrumentation, sophisticated techniques of data analysis and network compensation, global satellite positioning techniques, laser scanning, etc.),



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analytical and digital  
photogrammetry,  
satellite and airborne  
remote sensing,  
numerical  
cartography,  
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information systems,  
decision support  
systems, WebGIS,  
etc. These specialized  
elds are intimately  
interrelated in terms  
of both the basic

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science and the results pursued: rigid separation does not allow us to discover several common aspects and the fundamental importance assumed in a search for solutions in the complex survey context. The objective pursued by Mario A. Gomarasca, one that

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is only apparently modest, is to publish an integrated text on the surveying theme, containing simple and comprehensible concepts relevant to experts in Geo-spatial Information and/or speci cally in one of the disciplines that compose it. At the same time, the book is rigorous and

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synthetic, describing  
with precision the  
main instruments and  
methods connected to  
the multiple  
techniques available  
today.

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ground is a] narrative  
history of the Army's

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aerospace experience  
from the 1950s to the  
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program through the  
SAFEGUARD  
acquisition site  
allowed by the 1972  
ABM Treaty to the  
more advanced 'Star  
Wars' concepts

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studies toward the  
end of the century.

[What is] covered is  
not only the  
technological  
response to the threat  
but the organizational  
and tactical  
development of the  
commands and units  
responsible for the  
defense  
mission"--CMH  
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this book constitute

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Wireless

Communications  
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Conference, CISIM  
2019, Belgrade,  
Serbia, September  
19–21, 2019,

Proceedings

Applications and  
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Remote sensing is an

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integral part of  
geography, GIS and  
cartography, used by  
academics in the  
field and  
professionals in all  
sorts of occupations.  
The 1990s saw the  
development of a  
range of new  
methods of  
classifying remote

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sensing images and  
data, both optical  
imaging and

microwave imaging.

This comprehensive  
survey of the various  
techniques pul

This book constitutes  
the proceedings of  
the 18th

International  
Conference on

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Information Systems  
and Industrial  
Management  
Applications, CISIM  
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Belgrade, Serbia, in  
September 2019.  
The 43 full papers  
presented together  
with 3 abstracts of  
keynotes were

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and pattern  
recognition  
applications;  
computer  
information systems;  
industrial  
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and high  
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modelling and optimization; various aspects of computer security.

This Field Guide covers the various components and types of active electro-optical sensors—referred to as lidars in the text—from simple



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2D direct-detection

lidars to multiple

subaperture

synthetic aperture

lidars. Other topics

covered include

receivers, apertures,

atmospheric effects,

and appropriate

processing of

different lidars.

Lasers and

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modulation are presented in terms of their use in lidars.

The lidar range equation in its many variations is discussed along with receiver noise issues that determine how much signal must be received to detect an object. This book is

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a handy reference to quickly look up any aspect of active electro-optical sensors. It will be useful to students, lidar scientists, or engineers needing an occasional reminder of the correct approaches or equations in certain

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applications, and

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great wave of

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of objects so

programmable that

they can be regarded

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as material

instantiations of an  
immaterial system.

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the Terrestrial

Water Cycle

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Introduction to  
Embedded Systems  
F&S Index United  
States

Introduction to the  
Physics and  
Techniques of  
Remote Sensing  
Data-intensive  
Scientific Discovery  
*Geo-information  
technology can be of*

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*considerable use in disaster management, but with considerable challenge in integrating systems, interoperability and reliability. This book provides a broad overview of geo-information technology, software, systems needed, currently used and to be developed for*

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*disaster management.*

*The text invites*

*discussion on*

*systems and*

*requirements for use*

*of geo-information*

*under time and stress*

*constraints and*

*unfamiliar situations,*

*environments and*

*circumstances.*

*Electricity has shaped*

*the modern world. But*

*how has it affected*



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*our health and environment? Over the last 220 years, society has evolved a universal belief that electricity is 'safe' for humanity and the planet. Scientist and journalist Arthur Firstenberg disrupts this conviction by telling the story of electricity in a way it has never been told*

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*and polarization  
processes involving  
ice crystals.*

*Taking a detailed, non-  
mathematical  
approach to the  
principles on which  
remote sensing is  
based, this book  
progresses from the  
physical principles to  
the application of  
remote sensing.*

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*Spaceborne Radar  
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*Processing and  
Applications*

*Modern Physics*

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*A Cyber-Physical*

*Systems Approach*

*In today's*

*world, the*

*range of*

*technologies*

*with the*

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*potential to  
threaten the  
security of  
U.S. military  
forces is  
extremely  
broad. These  
include  
developments  
in explosive  
materials,  
sensors,*

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*control  
Xpu  
systems,  
robotics,  
satellite  
systems, and  
computing  
power, to name  
just a few.  
Such  
technologies  
have not only  
enhanced the*

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*capabilities*  
of U.S.

*military  
forces, but  
also offer  
enhanced  
offensive  
capabilities  
to potential  
adversaries -  
either  
directly*



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through the

development of  
more

sophisticated  
weapons, or  
more

indirectly  
through

opportunities  
for

interrupting  
the function

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*of defensive  
U.S. military  
systems.*

*Passive and  
active electro-  
optical (EO)  
sensing  
technologies  
are prime  
examples.*

*Laser Radar  
considers the*

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*potential of  
active EO  
technologies  
to create  
surprise;  
i.e., systems  
that use a  
source of  
visible or  
infrared light  
to interrogate  
a target in*

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*combination  
Xpu  
with sensitive  
detectors and  
processors to  
analyze the  
returned  
light. The  
addition of an  
interrogating  
light source  
to the system  
adds rich new*

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*phenomenologies that enable new capabilities to be explored. This report evaluates the fundamental, physical limits to active EO*

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*sensor  
Xpu  
technologies  
with potential  
military  
utility;  
identifies key  
technologies  
that may help  
overcome the  
impediments  
within a 5-10  
year*

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*timeframe;  
Xpu  
considers the  
pros and cons  
of  
implementing  
each existing  
or emerging  
technology;  
and evaluates  
the potential  
uses of active  
EO sensing*

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*This book  
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*differing*

*realities.*

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*and anyone  
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*interest in  
the*

*exponential  
rise of such*

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*technologies  
and how they  
are changing  
the very way  
we perceive,  
interact and  
communicate  
within our  
digital  
society.  
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and*

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*globalisation  
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are opening up  
the Arctic for  
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by the world -  
or so we are  
told. But what  
about the  
views,  
interests and  
needs of the  
peoples who*

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*live in the  
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*related to*

*Arcticness, to*  
*address the*

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*challenges  
faced by the  
Arctic as a  
region and  
specifically  
by local  
communities.  
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academic  
essays, the  
contributions  
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*climate*

*change; energy  
in the Arctic;  
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industries and  
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on local commu-  
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and poetry, to  
ensure wide  
and varied  
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*the Arctic  
Xpu  
experience -*

*what the  
contributions  
all have in  
common is the  
fundamental  
human perspective.  
The book  
includes  
reflections on  
the future of*

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*Arcticness,*  
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*engaging with  
communities to  
ensure  
meaningful  
representation  
and as a  
counterpoint  
to the primacy  
of  
environmental,  
national and*



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*global issues.*

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*overview of*

*air and*

*spaceborne*

*imagery and*

*related*

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*geospatial  
technologies  
tailored to  
the needs of a  
rchaeologists.  
Leading  
experts  
including  
scientists  
involved in  
NASA's Space  
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*provide*

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4) *Lidar* 5)

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*five sections*

*includes two*

*or more case*

*study*

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*applications*

*that have*

*enriched*

*understanding*

*of*

*archaeological*

*landscapes in*

*regions*

*including the*

*Near East,*

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and North  
America.

*Targeted to  
the needs of  
researchers  
and heritage  
managers as  
well as  
graduate and  
advanced  
undergraduate  
students, this*

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*volume conveys  
a basic*

*technological  
sense of what  
is currently  
possible and,  
it is hoped,  
will inspire  
new pioneering  
applications.*

*Particular  
attention is*

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*paid to the  
tandem goals  
of research (u  
nderstanding)  
and  
archaeological  
heritage  
management  
(preserving)  
the ancient  
past. The  
technologies*



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*and  
Xpu  
applications  
presented can  
be used to  
characterize  
environments,  
detect  
archaeological  
sites, model  
sites and  
settlement  
patterns and,*

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more

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*generally,  
reveal the  
dialectic land  
scape-scale  
dynamics among  
ancient  
peoples and  
their social  
and  
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*In light of  
contemporary  
economic  
development  
and resultant  
damage to and  
destruction of  
archaeological  
sites and  
landscapes,  
applications  
of air and*

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*spaceborne  
Xpu  
technologies  
in archaeology  
are of wide  
utility and  
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understanding  
of them is a  
particularly  
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goal at the  
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to the  
engineering  
principles of  
embedded  
systems, with a  
focus on  
modeling, design,  
and analysis of  
cyber-physical  
systems. The**

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**most visible use  
of computers and  
software is  
processing  
information for  
human  
consumption.**

**The vast majority  
of computers in  
use, however, are  
much less  
visible. They run**



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**the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They**

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**command robots  
on a factory floor,  
power generation  
in a power plant,  
processes in a  
chemical plant,  
and traffic lights  
in a city. These  
less visible  
computers are  
called embedded  
systems, and the**

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**software they run  
is called**

**embedded**

**software. The**

**principal**

**challenges in**

**designing and**

**analyzing**

**embedded**

**systems stem**

**from their**

**interaction with**

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**physical  
processes. This  
book takes a  
cyber-physical  
approach to  
embedded  
systems,  
introducing the  
engineering  
concepts  
underlying  
embedded**

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**systems as a  
technology and  
as a subject of  
study. The focus  
is on modeling,  
design, and  
analysis of cyber-  
physical  
systems, which  
integrate  
computation,  
networking, and**

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computer  
programming,  
basic discrete  
mathematics and  
algorithms, and  
signals and  
systems.**

**The race is on to  
construct the first**



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**quantum code**

**breaker, as the  
winner will hold  
the key to the  
entire Internet.**

**From  
international,  
multibillion-dollar  
financial  
transactions to  
top-secret  
government**

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**communications,  
all would be  
vulnerable to the  
secret-code-  
breaking ability  
of the quantum  
computer.**

**Written by a  
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quantum  
physicist closely  
involved in the**

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**U.S.  
government's  
development of  
quantum  
information  
science,  
Schrödinger's  
Killer App: Race  
to Build the  
World's First  
Quantum  
Computer**

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**presents an**

**inside look at the**

**government's**

**quest to build a**

**quantum**

**computer**

**capable of**

**solving complex**

**mathematical**

**problems and**

**hacking the**

**public-key**

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**encryption codes  
used to secure  
the Internet. The  
"killer  
application"  
refers to Shor's  
quantum  
factoring  
algorithm, which  
would unveil the  
encrypted  
communications**

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**of the entire  
Internet if a  
quantum  
computer could  
be built to run the  
algorithm.**

**Schrödinger's  
notion of  
quantum entangl  
ement—and his  
infamous cat—is  
at the heart of it**

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**all. The book  
develops the  
concept of  
entanglement in  
the historical  
context of  
Einstein's  
30-year battle  
with the physics  
community over  
the true meaning  
of quantum**

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**theory. It discusses the remedy to the threat posed by the quantum code breaker: quantum cryptography, which is unbreakable even by the quantum computer. The**



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**author also**

**covers**

**applications to  
other important  
areas, such as  
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simulators,  
synchronized  
clocks, quantum  
search engines,  
quantum  
sensors, and**

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**takes readers on**

**a philosophical**

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**ramifications of**

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**anecdotes, this**

**book presents**

**quantum**

**computing and**

**the closely**

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**quantum**

**mechanics in an**

**engaging manner**

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entanglement,  
Schrödinger's  
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quantum**

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signatures in real  
world situations,  
providing readers  
with a good**

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applications of  
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Topics covered  
include; bistatic/  
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through-wall  
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signatures and  
ultrasound micro-  
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**discussed**

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**targets with**

**movements;**

**analysis and**

**identifying**

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**movement;**

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helicopters;  
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