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# **Physical Sciences Paper 1 2011**

***This book is  
based on  
presentations at  
the International  
Science  
Education***

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***Conference  
(ISEC) 2014. It  
showcases a  
selection of the  
best papers by  
researchers and  
science teachers  
from the Asia-  
Pacific region,  
North America  
and the United  
Kingdom.  
Centered on the  
theme of***

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***“Pushing the boundaries - Investing in our future”, they pursue new ways of helping learners appreciate the diversity and changes in science that result from a globalised world facing complex***

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***and diverse  
environmental  
and  
technological  
issues. The  
chapters touch  
on various  
themes in  
science  
education that  
explore and  
investigate  
issues of  
scientific***

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***literacy, societal challenges and affect, and teacher professional development. Its comprehensive themes make it a valuable textbook for graduate students of master's and Ph.D. programs.***

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***It also appeals to pre-service and in-service teachers as a resource on innovative pedagogical practices and creative methods of professional development. With a selection that emphasises the research-***

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***practice nexus in  
education  
research, it  
serves as an  
introductory  
handbook for  
teachers to  
connect with the  
current issues  
facing science  
education.  
This Festschrift  
volume has been  
published in***

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***in honor of Cristian Calude on the occasion of his 60th birthday and contains contributions from invited speakers and regular papers presented at the International Workshop on Theoretical Computer***



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***Science, WTCS  
2012, held in  
Auckland, New  
Zealand, in  
February 2012.  
Cristian Calude  
has made a  
significant  
contribution to  
research in  
computer science  
theory. Along  
with early work  
by Chaitin,***

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***Kučera, Kurtz,  
Solovay, and  
Terwijn his  
papers published  
in the mid-1990s  
jointly with  
Khoussainov,  
Hertling, and  
Wang laid the  
foundation for  
the development  
of modern theory  
of algorithmic  
randomness. His***

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***work was essential for establishing the leading role of New Zealand in this area. The research interests of Cristian Calude are reflected in the topics covered by the 32 papers included in this book,***

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***namely:***

***algorithmic  
information  
theory,  
algorithms,  
automata and  
formal  
languages,  
computing and  
natural sciences,  
computability  
and applications,  
logic and  
applications,***

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***philosophy of  
computation,  
physics and  
computation, and  
unconventional  
models of  
computation.  
They have been  
organized into  
four parts. The  
first part  
consists of  
papers  
discussing his***

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***life***

***achievements.***

***This is followed  
by papers in the  
three general  
areas of  
complexity,  
computability,  
and randomness;  
physics,  
philosophy (and  
logic), and  
computation; and  
algorithms,***

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***automata, and formal models (including unconventional computing).***

***The job interview is probably the most important step you will take in your job search journey.***

***Because it's always important to be prepared to***

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***respond  
effectively to the  
questions that  
employers  
typically ask at a  
job interview  
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help you to get a  
job in oil and gas  
industry. Since  
these questions***



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***are so common,  
hiring managers  
will expect you to  
be able to answer  
them smoothly  
and without  
hesitation. This  
eBook contains  
272 questions  
and answers for  
job interview and  
as a BONUS 289  
links to video  
movies and web***

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***addresses to 205  
recruitment  
companies where  
you may apply  
for a job. This  
course covers  
aspects like HSE,  
Process,  
Mechanical,  
Electrical and  
Instrumentation  
& Control that  
will enable you to  
apply for any***

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***position in the  
Oil and Gas  
Industry.  
The Oxford  
Handbook of  
Archaeological  
Ceramic Analysis  
Research and  
Practices  
The Physics of  
the Manhattan  
Project  
Tensors and  
Riemannian***

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***Geometry  
Computation,  
Physics and  
Beyond  
Working Group I  
Contribution to  
the Fifth  
Assessment  
Report of the Int  
ergovernmental  
Panel on Climate  
Change***

The development of  
nuclear weapons

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during the  
Manhattan Project is  
one of the most  
significant scientific  
events of the  
twentieth century.  
This revised and  
updated 4th edition  
explores the  
challenges that  
faced the scientists  
and engineers of the  
Manhattan Project. It  
gives a clear

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introduction to fission weapons at the level of an upper-year undergraduate physics student by examining the details of nuclear reactions, their energy release, analytic and numerical models of the fission process, how critical masses can be estimated,

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how fissile materials are produced, and what factors complicate bomb design. An extensive list of references and a number of exercises for self-study are included. Revisions to this fourth edition include many upgrades and new sections.

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Improvements are made to, among other things, the analysis of the physics of the fission barrier, the time-dependent simulation of the explosion of a nuclear weapon, and the discussion of tamped bomb cores. New sections cover, for example,



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composite bomb cores, approximate methods for various of the calculations presented, and the physics of the polonium-beryllium "neutron initiators" used to trigger the bombs. The author delivers in this book an unparalleled, clear and comprehensive

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treatment of the physics behind the Manhattan project. This volume enables readers to understand the complexity associated with climate change policy and the science behind it. For example, the author describes the criticism and

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defense of the  
widely known  
"hockey stick"  
temperature graph  
derived from  
combining  
instrumental data  
and proxy  
temperature  
indications using  
tree ring, ice core  
and other  
paleoclimatic data.  
Readers will also

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learn that global warming cannot easily be avoided by reducing CO<sub>2</sub> and other greenhouse gas emissions in rich countries. Not only is emissions reduction extremely difficult in rich countries, but demands such as the UN mandate to improve the lives of

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the poorest global citizens cannot be satisfied without significantly increasing global energy use, and CO<sub>2</sub> emissions. Therefore, the author asserts that climate engineering and adaptation are preferable to mitigation, particularly since

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the science is less than adequate for making firm statements about the Earth's future climate. Readers will also learn that global warming cannot easily be avoided by reducing CO<sub>2</sub> and other greenhouse gas emissions in rich countries. Not only

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is emissions reduction extremely difficult in rich countries, but demands such as the UN mandate to improve the lives of the poorest global citizens cannot be satisfied without significantly increasing global energy use, and CO<sub>2</sub> emissions.

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Therefore, the author asserts that climate engineering and adaptation are preferable to mitigation, particularly since the science is less than adequate for making firm statements about the Earth's future climate.

?This course covers



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aspects like HSE,  
Process,  
Mechanical,  
Electrical and  
Instrumentation &  
Control that will  
enable you to apply  
for any position in  
the Oil and Gas  
Industry. The job  
interview is  
probably the most  
important step you  
will take in your job

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search journey.

Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas

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industry. As a  
BONUS this eBook  
contains web  
addresses to 301  
video movies for a  
better  
understanding of  
the technological  
process and 205  
web addresses to  
recruitment  
companies where  
you may apply for a  
job.

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Interim Report  
Astroparticle,  
Particle, Space  
Physics and  
Detectors for  
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Applications  
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Equations  
A Synthesis of  
Research on  
Thinking and  
Learning in the

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Geosciences

Economics,

Sustainability, and

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Review of the 21st

Century Truck

Partnership, Second

Report

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of the Sun, to the  
upper  
atmosphere and  
near-space**

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**environment of Earth, and outward to a region far beyond Pluto where the Sun's influence wanes, advances during the past decade in space physics and solar physics--the disciplines NASA refers to as helio**

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**physics--have  
yielded  
spectacular  
insights into the  
phenomena that  
affect our home  
in space. Solar  
and Space  
Physics, from the  
National  
Research  
Council's (NRC's)  
Committee for a**

**Decadal Strategy  
in Solar and  
Space Physics, is  
the second NRC  
decadal survey in  
heliophysics.  
Building on the  
research  
accomplishments  
realized during  
the past decade,  
the report  
presents a**



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**program of basic  
and applied  
research for the  
period 2013-2022  
that will improve  
scientific  
understanding of  
the mechanisms  
that drive the  
Sun's activity and  
the fundamental  
physical  
processes**

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**underlying near-Earth plasma dynamics, determine the physical interactions of Earth's atmospheric layers in the context of the connected Sun-Earth system, and enhance**

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**greatly the  
capability to  
provide realistic  
and specific  
forecasts of  
Earth's space  
environment that  
will better serve  
the needs of  
society. Although  
the  
recommended  
program is**

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**directed primarily at NASA and the National Science Foundation for action, the report also recommends actions by other federal agencies, especially the parts of the National Oceanic and Atmospheric Administration**

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**charged with the day-to-day (operational) forecast of space weather. In addition to the recommendations included in this summary, related recommendations are presented in this report.**

**The job interview**

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**is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a**

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**job interview**

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**International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer**

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**them smoothly  
and without  
hesitation. This  
eBook contains  
270 questions  
and answer for  
job interview and  
as a BONUS 145  
links to video  
movies and web  
addresses to 205  
recruitment  
companies where**



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**technologies are a rapidly growing area of interest in science and product design, embracing developments in electronics, photonics, mechanics, chemistry, and biology. Their presence is**

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**widespread in  
everyday life,  
where they are  
used to sense  
sound,  
movement, and  
optical or  
magnetic signals.  
The demand for  
portable and  
lightweight  
sensors is  
relentless in**

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**several  
industries, from  
consumer  
electronics to  
biomedical  
engineering to  
the military.  
Smart Sensors  
for Industrial  
Applications  
brings together  
the latest  
research in smart**

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**sensors**

**technology and  
exposes the  
reader to myriad  
applications that  
this technology  
has enabled.**

**Organized into  
five parts, the  
book explores:  
Photonics and  
optoelectronics  
sensors,**

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**including  
developments in  
optical fibers,  
Brillouin  
detection, and  
Doppler effect  
analysis.  
Chapters also  
look at key  
applications such  
as oxygen  
detection,  
directional**

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**discrimination,  
and optical  
sensing. Infrared  
and thermal  
sensors, such as  
Bragg gratings,  
thin films, and  
microbolometers.  
Contributors also  
cover  
temperature  
measurements in  
industrial**

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**conditions,  
including sensing  
inside explosions.  
Magnetic and  
inductive  
sensors,  
including  
magnetometers,  
inductive  
coupling, and  
ferro-fluidics. The  
book also  
discusses**



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**magnetic field  
and inductive  
current  
measurements in  
various industrial  
conditions, such  
as on airplanes.  
Sound and  
ultrasound  
sensors,  
including  
underwater  
acoustic modem,**

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**vibrational  
spectroscopy,  
and  
photoacoustics.  
Piezoresistive,  
wireless, and  
electrical  
sensors, with  
applications in  
health  
monitoring,  
agrofood, and  
other industries.**

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**Featuring contributions by experts from around the world, this book offers a comprehensive review of the groundbreaking technologies and the latest applications and trends in the field of smart sensors.**

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on Offshore  
Drilling Rigs  
Higgs Boson  
Decays into a  
Pair of Bottom  
Quarks  
Rationales and  
Approaches for a  
U.S. Program of  
Human Space  
Exploration  
Machinery,**

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**Materials Science  
and Engineering  
Applications,  
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prepared for job  
interview**

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Gas Platforms**

**Exploring Alterity  
in a Globalized  
World**

***Articles refer to***

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***thematic paper,***

***and***

***commentaries.***

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***covers the***

***following: Strictly***

***as per the Full***

***syllabus for***

***Board 2022-23***

***Exams Includes***

***Questions of the***

***both - Objective &***

***Subjective Types***

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**Chapterwise and**  
**Topicwise**  
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**quick learning**  
**Concept videos**  
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***Years' Board  
Examination  
Questions and  
Marking scheme  
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detailed  
explanation to  
facilitate exam-  
oriented  
preparation.  
Examiners  
comments &  
Answering Tips to***

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***aid in exam  
preparation.  
Includes Topics  
found Difficult &  
Suggestions for  
students.  
Includes  
Academically  
important  
Questions (AI)  
Dynamic QR code  
to keep the  
students updated***

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***for 2023 Exam  
paper or any  
further ISC notifi  
cations/circulars  
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Assessment  
Report of the  
IPCC is the  
standard  
scientific  
reference on  
climate change  
for students,***

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***researchers and  
policy makers.  
Pathways to  
Exploration  
Job interview  
questions and  
answers for  
employment on  
Offshore Oil &  
Gas Platforms  
Phenomenologica  
I Structure for  
the Large***

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***Principle in Time-  
Series Statistics***

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Pacific and***

***Beyond***

***A Science for a  
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has prepared  
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will help you to  
get a job in oil  
and gas  
industry. As a  
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contains web  
addresses to 309  
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a better  
understanding of



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the

technological  
process and 205  
web addresses to  
recruitment  
companies where  
you may apply  
for a job.

This volume  
develops a  
unique framework  
to understand  
India through  
indigenous and

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European

perspectives,  
and examines how  
it copes with  
the larger  
challenges of a  
globalized  
world. Through a  
discussion of  
religious and  
philosophical  
traditions,  
cultural  
developments as

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well as

contemporary  
theatre, films  
and media, it  
explores the  
manner in which  
India negotiates  
the trials of  
globalization.  
It also focuses  
upon India's  
school and  
education  
system, its

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limitations and successes, and how it prepares to achieve social inclusion. The work further shows how contemporary societies in both India and Europe deal with cultural diversity and

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engage with the tensions between tendencies towards homogenization and diversity. This eclectic collection on what it is to be a part of global network will be of interest to scholars and researchers of

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South Asian  
studies,  
philosophy,  
sociology,  
culture studies,  
and religion.  
In July 2010,  
the National  
Research Council  
(NRC) appointed  
the Committee to  
Review the 21st  
Century Truck  
Partnership,

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Phase 2, to  
conduct an  
independent  
review of the  
21st Century  
Truck  
Partnership  
(21CTP). The  
21CTP is a  
cooperative  
research and  
development  
(R&D)  
partnership

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including four  
federal agencies—  
the U.S.

Department of  
Energy (DOE),  
U.S. Department  
of  
Transportation  
(DOT), U.S.

Department of  
Defense (DOD),  
and the U.S.  
Environmental  
Protection



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Agency (EPA) –and  
15 industrial  
partners. The  
purpose of this  
Partnership is  
to reduce fuel  
consumption and  
emissions,  
increase heavy-  
duty vehicle  
safety, and  
support  
research,  
development, and

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demonstration to  
initiate  
commercially  
viable products  
and systems.  
This is the  
NRC's second  
report on the  
topic and it  
includes the  
committee's  
review of the  
Partnership as a  
whole, its major

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areas of focus,  
21CTP's  
management and  
priority  
setting,  
efficient  
operations, and  
the new  
SuperTruck  
program.

Division of  
Atmospheric  
Physics

Technical Paper

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Japanese Journal  
of Applied  
Physics  
Climate Change  
2013: The  
Physical Science  
Basis  
Geoinformatics  
for Marine and  
Coastal  
Management  
Prospects for an  
Alternative  
Energy Future

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**Chapterwise  
Topicwise Solved  
Papers Physics  
for Engineering  
Entrances 2020**

The Oxford  
Handbook of  
Archaeological  
Ceramic Analysis  
draws together  
topics and  
methodologies  
essential for the  
socio-cultural,

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mineralogical, and geochemical analysis of archaeological ceramic. Ceramic is one of the most complex and ubiquitous archaeomaterials in the archaeological record: it occurs around the world and through time

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in almost every culture and context, from building materials and technological installations to utilitarian wares and votive figurines. For more than 100 years, archaeologists have used ceramic analysis to answer complex questions

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about economy, subsistence, technological innovation, social organization, and dating. The volume is structured around the themes 'Research design and data analysis', 'Foundational concepts', 'Evaluating ceramic provenance',



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'Investigating ceramic manufacture', 'Assessing vessel function', and 'Dating ceramic assemblages'. It provides a common vocabulary and offers practical tools and guidelines for ceramic analysis using techniques

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and methodologies ranging from network analysis and typology to rehydroxylation dating and inductively coupled plasma mass spectrometry. Each chapter provides the theoretical background and practical guidelines, such as

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cost and destructiveness of analysis, for each technique, as well as detailed case studies illustrating the application and interpretation of analytical data for answering anthropological questions.

This book offers an insight into the

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research and practices of science teaching and learning in the Singapore classroom, with particular attention paid to how they map on to science as inquiry. It provides a spectrum of Singapore's science

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educational practices through all levels of its education system, detailing both successes and shortcomings. The book features a collection of research and discourse by science educators in Singapore, organized around

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four themes that are essential components of approaching science as inquiry: teachers' ideas and their practices, opportunities and constraints from a systemic level, students' competencies and readiness to learn through inquiry and

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the need for greater awareness of the role of informal learning avenues in science education. In addition, the discourse within each theme is enriched by commentary from a leading international academic, which

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helps to consolidate ideas as well as position the issues within a wider theoretical and international context. Overall, the papers set out important contexts for readers to understand the current state of science education in Singapore. They



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also highlight strengths and gaps in practices of science as inquiry as well as provide suggestions about how the system can be improved. These research findings are therefore helpful as they provide honest and evidence-based

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feedback as well as tangible and doable ideas that policy makers, teachers, students and school administrators can adopt, adapt and enhance.

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industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 290 questions and answers for job interview and as a BONUS web

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addresses to 295  
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better  
understanding of  
the technological  
process. This  
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Process,  
Mechanical,  
Electrical and  
Instrumentation &  
Control that will  
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apply for any  
position in the Oil  
and Gas Industry.

A method to  
control the rare  
events in non-  
equilibrium  
systems

Oswaal ISC

Question Bank

Class 12 Physics,

Chemistry,

Mathematics,

English Paper-1 & 2

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(For 2023 Exam)

International

Workshop on

Theoretical

Computer Science,

WTCS 2012,

Dedicated to

Cristian S. Calude

on the Occasion of

His 60th Birthday,

Auckland, New

Zealand, February

21-24, 2012,

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short notes  
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Observation with  
the ATLAS Detector  
and Machine  
Learning  
Applications  
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vascular  
imaging and  
endovascular  
interventions.  
Covers  
diagnosis and  
treatment of  
numerous  
vascular  
disorders.  
Internationally  
recognised  
author team.

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one need to  
have clear  
concept about  
each and every  
topic and  
understanding  
of the  
examination  
pattern are  
most important  
things which  
can be done by  
using the good

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Advanced 2020,  
which have been  
consciously  
revised as per  
the latest  
pattern of  
exam. It  
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Years of Solved  
Papers  
[2019-2005] in  
both

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book gives the complete coverage of Questions asked in JEE Main & Advanced, AIEEE, IIT JEE & BITSAT, UPSEE, MANIPAL, EAMCET, WB JEE, etc., Thorough practice done from this book

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will the  
candidates to  
move a step  
towards their  
success. TABLE  
OF CONTENT Part  
I Based on  
Class XI NCERT  
– Units and  
Measurements,  
Motion in a  
Straight Line,  
Motion in a



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Plane I  
(Vectors),  
Motion in a  
Plane (Two and  
Three  
Dimensions),  
Laws of Motion,  
Work, Energy  
and Power,  
Systems of  
Particles and  
Rotational  
Motion,

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Gravitation,  
Mechanical  
Properties of  
Solids,  
Mechanical  
Properties of  
Fluids, Thermal  
Properties of  
Matter,  
Thermodynamics,  
Kinetic Theory  
of Gases,  
Oscillations,

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Waves, Part II  
Based on Class  
XII NCERT –  
Electrostatics  
I,  
Electrostatics  
II  
(Capacitance),  
Current  
Electricity,  
Current and  
Electricity II,  
Moving Charges

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and Magnetism,  
Magnetism and  
Matter,  
Electromagnetic  
Induction,  
Alternating  
Current,  
Electromagnetic  
Waves, Ray  
Optics, Wave  
Optics, Dual  
Nature of  
Radiation &

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Matter, Atoms  
and Nuclei,  
Semiconductor  
Devices,  
Communication  
System,  
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in JEE Main  
2015, Solved  
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(JEE Main,  
BITSAT, AP  
EAMCET, TS

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GGSIPIU), Solved  
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Advanced,  
BITSAT, VIT &  
WBJEE), Solved  
Papers 2018  
(JEE Main &  
Advanced,  
BITSAT, WBJEE &  
KCET), Solved  
Papers 2019

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(JEE Main &  
Advanced,  
BITSAT &  
WBJEE).

This thesis  
describes a  
method to  
control rare  
events in non-  
equilibrium  
systems by  
applying  
physical forces

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to those systems but without relying on numerical simulation techniques, such as copying rare events. In order to study this method, the book draws on the mathematical



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structure of  
equilibrium  
statistical  
mechanics,  
which connects  
large deviation  
functions with  
experimentally  
measurable  
thermodynamic  
functions.  
Referring to  
this specific

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structure as  
the “phenomenol  
ogical  
structure for  
the large  
deviation  
principle”, the  
author  
subsequently  
extends it to  
time-series  
statistics that  
can be used to

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describe non-equilibrium physics. The book features pedagogical explanations and also shows many open problems to which the proposed method can be applied only to a

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limited extent.  
Beyond  
highlighting  
these  
challenging  
problems as a  
point of  
departure, it  
especially  
offers an  
effective means  
of description  
for rare

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events, which could become the next paradigm of non-equilibrium statistical mechanics.

Vascular  
Imaging and  
Intervention  
Earth and Mind  
II  
Climate Change,

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Climate Science  
and Economics  
Economics in  
the Era of  
Climate Change  
International  
Symposium on  
Biomedical  
Engineering and  
Medical  
Physics, 10-12  
October, 2012,  
Riga, Latvia

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Oswaal ISC  
Question Bank  
Class 12  
Physics,  
Chemistry,  
Biology,  
English Paper-1  
& 2 (Set of 5  
Books) (For  
2023 Exam)

*This volume  
presents the  
proceedings of the*

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*International  
Symposium on  
Biomedical  
Engineering and  
Medical Physics and  
is dedicated to the  
150 anniversary of  
the Riga Technical  
University, Latvia.  
The content  
includes various hot  
topics in biomedical  
engineering and*



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*medical physics.  
Volume is indexed  
by Thomson  
Reuters CPCI-S  
(WoS). The purpose  
of this special  
collection was to  
strengthen national  
academic  
exchanges and  
cooperation in the  
field, to promote  
the rapid*

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*development of  
machinery,  
materials science  
and engineering  
applications, to  
improve China's  
machinery,  
materials science  
and engineering in  
the sense of  
academic status  
and international  
influence and to*

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*play an active role in reducing the distance between domestic and world-class norms. In accomplishing this, the present book succeeds admirably.*

*The exploration of the subnuclear world is done through*

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*increasingly  
complex  
experiments  
covering a wide  
range of energy  
and performed in a  
large variety of  
environments  
ranging from  
particle  
accelerators,  
underground  
detectors to*

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*satellites and the space laboratory. Among recent advances one has to indicate, for instance, first results obtained from space and LHC experiments and progress done in preparation of the latter experiments upgrades, including*

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*plans for the LHC machine upgrade. The achievement of these research programs calls for novel techniques, new materials and instrumentation to be used in detectors, often of large scale. Therefore, fundamental*

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*physics is at the  
forefront of  
technological  
advance and also  
leads to many  
applications.  
Among these,  
medical  
applications have a  
particular  
importance due to  
health and social  
benefits they bring*

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*to the public.*

*Sample Chapter(s).*

*Science highlights  
from the Fenni*

*Observatory (5,046*

*KB). Contents:*

*Space Experiments  
and Cosmic Rays*

*Observations;*

*Production and*

*Propagation of*

*Cosmic Rays in the*

*Galaxy and*



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*Heliosphere; Dark  
Matter Searches,  
Underwater and  
Underground  
Experiments; High  
Energy Physics  
Experiments;  
Tracker and  
Position Sensitive  
Detectors;  
Calorimetry;  
Advanced  
Detectors, Particles*

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*Identification,  
Devices and  
Materials in  
Radiation; Broader  
Impact Activities,  
Treatments and  
Software  
Application.*

*Readership: Post-  
graduate students,  
researchers and  
engineers.*

*Smart Sensors for*

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*Industrial  
Applications  
The Chemical News  
and Journal of  
Physical Science  
Memoirs of the  
Institute of  
Scientific and  
Industrial Research,  
Osaka University  
Proceedings of the  
13th ICATPP  
Conference*

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*Overcoming  
Barriers to Electric-  
Vehicle Deployment  
Inquiry into the  
Singapore Science  
Classroom*

The electric vehicle offers many promises—increasing U.S. energy security by reducing petroleum dependence, contributing to climate-

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change initiatives by decreasing greenhouse gas (GHG) emissions, stimulating long-term economic growth through the development of new technologies and industries, and improving public health by improving local air quality. There are, however,

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substantial technical, social, and economic barriers to widespread adoption of electric vehicles, including vehicle cost, small driving range, long charging times, and the need for a charging infrastructure. In addition, people are unfamiliar with

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electric vehicles, are uncertain about their costs and benefits, and have diverse needs that current electric vehicles might not meet. Although a person might derive some personal benefits from ownership, the costs of achieving the social benefits, such as

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reduced GHG

emissions, are borne largely by the people who purchase the vehicles. Given the recognized barriers to electric-vehicle adoption, Congress asked the Department of Energy (DOE) to commission a study by the National Academies to address



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market barriers that are slowing the purchase of electric vehicles and hindering the deployment of supporting infrastructure. As a result of the request, the National Research Council (NRC)—a part of the National Academies—appointed the Committee on

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Overcoming Barriers to Electric-Vehicle Deployment. This committee documented their findings in two reports—a short interim report focused on near-term options, and a final comprehensive report. Overcoming Barriers to Electric-Vehicle Deployment

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fulfills the request for the short interim report that addresses specifically the following issues: infrastructure needs for electric vehicles, barriers to deploying the infrastructure, and possible roles of the federal government in overcoming the barriers. This report

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also includes an initial discussion of the pros and cons of the possible roles. This interim report does not address the committee's full statement of task and does not offer any recommendations because the committee is still in its early stages of data-

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gathering. The committee will continue to gather and review information and conduct analyses through late spring 2014 and will issue its final report in late summer 2014.

Overcoming Barriers to Electric-Vehicle Deployment focuses on the light-duty

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vehicle sector in the United States and restricts its discussion of electric vehicles to plug-in electric vehicles (PEVs), which include battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). The common feature of these vehicles is

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that their batteries are charged by being plugged into the electric grid. BEVs differ from PHEVs because they operate solely on electricity stored in a battery (that is, there is no other power source); PHEVs have internal combustion engines that can supplement

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the electric power train. Although this report considers PEVs generally, the committee recognizes that there are fundamental differences between PHEVs and BEVs. The United States has publicly funded its human spaceflight program on a



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continuous basis for more than a half-century, through three wars and a half-dozen recessions, from the early Mercury and Gemini suborbital and Earth orbital missions, to the lunar landings, and thence to the first reusable winged crewed spaceplane that the United States

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operated for three decades. Today the United States is the major partner in a massive orbital facility - the International Space Station - that is becoming the focal point for the first tentative steps in commercial cargo and crewed orbital space

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flights. And yet, the long-term future of human spaceflight beyond this project is unclear.

Pronouncements by multiple presidents of bold new ventures by Americans to the Moon, to Mars, and to an asteroid in its native orbit, have not been matched by the

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same commitment that accompanied President Kennedy's now fabled 1961 speech-namely, the substantial increase in NASA funding needed to make it happen. Are we still committed to advancing human spaceflight? What should a long-term

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goal be, and what does the United States need to do to achieve it?

Pathways to

Exploration explores the case for advancing this endeavor, drawing on the history of rationales for human spaceflight, examining the attitudes of stakeholders and the public, and carefully

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assessing the technical  
and fiscal realities.

This report  
recommends  
maintaining the long-  
term focus on Mars as  
the horizon goal for  
human space  
exploration. With this  
goal in mind, the  
report considers  
funding levels  
necessary to maintain

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a robust tempo of execution, current research and exploration projects and the time/resources needed to continue them, and international cooperation that could contribute to the achievement of spaceflight to Mars.

According to

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Pathways to  
Exploration, a  
successful U.S.  
program would  
require sustained  
national commitment  
and a budget that  
increases by more  
than the rate of  
inflation. In reviving a  
U.S. human  
exploration program  
capable of answering



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the enduring questions about humanity's destiny beyond our tiny blue planet, the nation will need to grapple with the attitudinal and fiscal realities of the nation today while staying true to a small but crucial set of fundamental principles for the

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conduct of exploration  
of the endless frontier.  
The recommendations  
of Pathways to  
Exploration provide a  
clear map toward a  
human spaceflight  
program that inspires  
students and citizens  
by furthering human  
exploration and  
discovery, while  
taking into account the

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long-term

commitment

necessary to achieve  
this goal.

The American  
economy faces two  
deep problems:  
expanding innovation  
and raising the rate of  
quality job creation.  
Both have roots in a  
neglected problem:  
the resistance of

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Legacy economic sectors to innovation. While the U.S. has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology, most of its economy is locked into Legacy

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sectors defended by technological/ economic/ political/ social paradigms that block competition from disruptive innovations that could challenge their models. Americans like to build technology "covered wagons" and take them "out west" to

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open new innovation  
frontiers; we don't  
head our wagons  
"back east" to bring  
innovation to our  
Legacy sectors. By  
failing to do so, the  
economy misses a  
major opportunity for  
innovation, which is  
the bedrock of U.S.  
competitiveness and  
its standard of living.

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Technological  
Innovation in Legacy  
Sectors uses a new,  
unifying conceptual  
framework to identify  
the shared features  
underlying structural  
obstacles to  
innovation in major  
Legacy sectors:  
energy, air and auto  
transport, the electric  
power grid, buildings,

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manufacturing, agriculture, health care delivery and higher education, and develops approaches to understand and transform them. It finds both strengths and obstacles to innovation in the national innovation environments - a new concept that combines



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the innovation system  
and the broader  
innovation context -  
for a group of Asian  
and European  
economies.

Manufacturing is a  
major Legacy sector  
that presents a  
particular challenge  
because it is a critical  
stage in the innovation  
process. By

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increasingly  
offshoring production,  
the U.S. is losing  
important parts of its  
innovation capacity.  
"Innovate here,  
produce here," where  
the U.S. took all the  
gains of its strong  
innovation system at  
every stage, is being  
replaced by "innovate  
here, produce there,"

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which threatens to lead to "produce there, innovate there." To bring innovation to Legacy sectors, authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through

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implementation. They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations. In the specific case of advanced manufacturing, the production ecosystem can be recreated to

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reverse "jobless  
innovation" and add  
manufacturing-led  
innovation to the  
U.S.'s still-strong,  
research-oriented  
innovation system.

Canadian Journal of  
Physics

Progress in Physics  
Chemical News and  
Journal of Physical  
Science

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The technological  
process on Offshore  
Drilling Platforms for  
fresher candidates  
Job interview  
questions and answers  
for employment on  
Offshore Drilling  
Platforms  
Technological  
Innovation in Legacy  
Sectors  
Geoinformatics for

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Marine and Coastal Management provides a timely and valuable assessment of the current state of the art geoinformatics tools and methods for the management of marine systems. This book focuses on the cutting-edge coverage of a wide

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spectrum of activities  
and topics such as  
GIS-based  
application of  
drainage basin  
analysis,  
contribution of  
ontology to marine  
management,  
geoinformatics in  
relation to fisheries  
management,  
hydrography,



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indigenous knowledge systems, and marine law enforcement. The authors present a comprehensive overview of the field of Geoinformatic Applications in Marine Management covering key issues and debates with specific case studies

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illustrating real-world applications of the GIS technology. This "box of tools" serves as a long-term resource for coastal zone managers, professionals, practitioners, and students alike on the management of oceans and the coastal fringe,

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promoting the approach of allowing sustainable and integrated use of oceans to maximize opportunities while keeping risks and hazards to a minimum.

How should we conduct economics in an era of climate change, natural

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resource depletion and population increase? These issues are systemic, and involve great uncertainties and long time horizons. This book contends that the free-market economics that has dominated capitalist democracies in recent decades is not

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up to the task; that the welfarist economics that preceded it, while preferable, also has inadequacies; and that what is required is an economics founded on ecological principles, greater respect for the laws of natural science, and a moral

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commitment to a sustainable future. The book commences with an exposition of major aspects of orthodox macroeconomic and microeconomic theory. It then explores the bounds of orthodox theory in relation to ethics, liberalism, ideology,

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society, the international economy, globalization, and the environment, and seeks lessons for a future economics. Issues raised by natural resource use and climate change are given particular prominence. Many of the issues of critical

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importance in coming decades involve not private goods but public goods: goods which markets are ill-equipped to deal with. In the resolution of these issues political processes will need to be engaged. The availability to each



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individual of clean air, clean water and adequate sustenance, goods which cannot be provided for by economic production alone, are of central concern. While acknowledging the importance of market processes, the author argues in favour of a more

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deliberative and  
democratic economy,  
the greater  
engagement of civil  
society,  
environmental  
human rights and  
responsibilities, and  
in favour of a World  
Environment  
Organization,  
change in the  
conduct of the World

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Trade Organization, and for economists to accept moral responsibility for the policies they advocate. Specific case studies are given and potential policies outlined. This book will be of interest not only to economists but also to citizens generally and

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students concerned with public affairs. This book is based on the experience of teaching the subject by the author in Russia, France, South Africa and Sweden. The author provides students and teachers with an easy to follow textbook spanning a

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variety of topics on tensors, Riemannian geometry and geometric approach to partial differential equations.

Application of approximate transformation groups to the equations of general relativity in the de Sitter space

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simplifies the subject  
significantly.