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Physics  
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- advanced trade book • complete coverage of all question-types since 1996 • comprehensive “trick” question-types revealed • full set of all possible

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step-by-step solution  
approaches •

examination reports

revealing common

mistakes & wrong

habits • short side-

reading notes • easy-

to-implement check-

back procedure •

Complete edition

eBook only

The interplay

between

combinatorics and

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theoretical physics is a recent trend which appears to us as particularly natural, since the unfolding of new ideas in physics is often tied to the development of combinatorial methods, and, conversely, problems in combinatorics have been successfully tackled

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using methods inspired by theoretical physics. We can thus speak nowadays of an emerging domain of Combinatorial Physics. The interference between these two disciplines is moreover an interference of multiple facets. Its best known

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manifestation (both to combinatorialists and theoretical physicists) has so far been the one between combinatorics and statistical physics, as statistical physics relies on an accurate counting of the various states or configurations of a physical system. But

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combinatorics and theoretical physics interact in various other ways. This book is mainly dedicated to the interactions of combinatorics (algebraic, enumerative, analytic) with (commutative and non-commutative) quantum field theory and tensor models,

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the latter being seen  
as a quantum field  
theoretical  
generalisation of  
matrix models.

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Complete Yearly  
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wreef)Yellowreef  
Limited

- new questions  
from top schools  
since 2003 •
- complete solutions •

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topical order to  
facilitate drilling •  
complete and true  
encyclopedia of  
question - types •  
first to expose all-  
inclusive “trick”  
questions • first to  
make available full  
set of step-by-step  
solution approaches  
(available separately)  
• advanced trade  
book • Complete



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edition eBook only

Engineering the

Human

Physics of

Semiconductor

Devices

Polymer Physics

The Spectra and

Dynamics of Diatomic

Molecules

Qualitative Research

& Evaluation

Methods

IGCSE Physics

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Challenging Drill  
Questions

(Yellowreef)

Optical Properties  
of Solids covers the  
important concepts  
of intrinsic optical  
properties and  
photoelectric  
emission. The book  
starts by providing  
an introduction to  
the fundamental

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optical spectra of solids. The text then discusses Maxwell's equations and the dielectric function; absorption and dispersion; and the theory of free-electron metals. The quantum mechanical theory of direct and indirect transitions

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between bands; the applications of dispersion relations; and the derivation of an expression for the dielectric function in the self-consistent field approximation are also encompassed. The book further tackles current-current

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correlations; the fluctuation-dissipation theorem; and the effect of surface plasmons on optical properties and photoemission. People involved in the study of the optical properties of solids will find the book invaluable. Book 4 deals with

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the topics on the section "electricity and magnetism", which carries a substantial weight on the HKDSE syllabus and examination.

Electricity plays an important role in the modern world in every sector of human activities.

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Every person nowadays has to use electrical appliances every day. Some general knowledge about electrical safety is essential. As a subject, learning this topic at DSE level lays the foundation for further studies in

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the field of science, engineering, and other innovative technological development. It is customary to name this section of the syllabus as "electricity and magnetism". In fact, there is a close relationship between them. An



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electric current produces a magnetic field, and magnetic fields interact to produce magnetic forces in motors. A changing magnetic field produces an induced e.m.f. which is the basic physics principle underlying the

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production of electricity using a.c. generators in power stations. The magnetism of a permanent magnet is in fact due to atomic currents caused by orbiting and spinning electrons. Hence except for static charges, the name

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electromagnetism is used to describe various phenomena relating currents, changing currents, magnetic fields and changing magnetic fields.

- first to completely cover all question-types since 1996 (with answer keys)
- first to expose all

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- “trick” questions
- provides full set of step-by-step solution approaches (available separately)
- provides an easy path to final A\* distinction grade
- Complete edition and concise edition eBooks available
- completely cover

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all question-types  
since 1996 •  
expose all “trick”  
questions • make  
available full set of  
all possible step-by-  
step solution  
approaches •  
provide  
examination reports  
revealing common  
mistakes & unusual  
wrong habits • give

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short side-reading  
notes • teach easy-  
to-implement check-  
back procedure •

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and concise edition  
eBooks available

Singapore PSLE

Mathematics

Challenging

Practice Questions

(Concise)

(Yellowreef)

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A Growing Security  
Discourse

Physics Exam-  
builder for HKDSE  
Force and Motion  
(Second Edition)  
HKDSE Economics  
(Definition) (English  
version)

***This volume  
addresses  
developments in***

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*European space policy and its significance for European integration, using discourse theory as a framework. It seeks to address the developments in European space policy by*



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*examining  
several  
sensitive  
security  
questions  
linked in  
general with  
space  
activities, on  
the one hand,  
and the  
interplay  
between space*

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*policy and security policy in the European Union (EU) on the other. The book argues that defence and security matters should be studied for a better understanding of space*

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*projects in  
their  
historical,  
political,  
economic, legal  
and social  
context. The  
volume seeks to  
answer the  
following key  
questions: •  
What can space  
policy*

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*contribute to  
European  
identity  
formation and  
the integration  
process? • What  
are the  
interests of  
member  
states/EU  
institutions in  
space? • How is  
space policy*

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*perceived by  
European  
institutions,  
and how have  
they been  
engaged in the  
policy process  
to promote  
activity in  
space? • In  
which ways is  
the EU engaged  
in space, in*

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*terms of policy  
areas, e.g.  
foreign policy,  
industrial  
policy,  
security and  
defence  
policies? •*

*What is the  
impact of  
institutions on  
the policy-  
making process*

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*in European  
space policy?  
This book will  
be of interest  
to students of  
EU policy,  
space policy,  
discourse  
studies and  
International  
Relations in  
general.*

- *Candidates /*  
*Page 31/171*

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*Tutors must have noticed that the exam questions has gone towards advanced level year-1, but yet the syllabus does not reflect this change; we have made the necessary*



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*accommodation •*

*First to  
provide the  
complete guide  
to lead one  
through this  
highly  
demanding  
knowledge  
requirement  
with full past-  
years' exam  
questions*

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*support • Exact  
accurate  
answers and  
definitions •  
most efficient  
method of  
learning, hence  
saves time •  
very advanced  
trade book •  
complete  
edition and  
concise edition*

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**eBooks**

*available*

*This book is  
written for  
graduate  
students just  
beginning  
research, for  
theorists  
curious about  
what experiment  
alists actually  
can and do*

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*measure, and  
for experimental  
lists  
bewildered by  
theory. It is a  
guide for  
potential users  
of  
spectroscopic  
data, and uses  
language and  
concepts that  
bridge the*

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*frequency-and  
time-domain  
spectroscopic  
communities.  
Key topics,  
concepts, and  
techniques  
include: the  
assignment of  
simple spectra,  
basic  
experimental  
techniques,*

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*definition of Born-Oppenheimer and angular momentum basis sets and the associated spectroscopic energy level patterns (Hund's cases), construction of effective Hamiltonian*

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*matrices to  
represent both  
spectra and  
dynamics, terms  
neglected in  
the Born-  
Oppenheimer  
approximation  
(situations  
intermediate  
between Hund's  
cases,  
spectroscopic*

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*perturbations),  
nonlinear least  
squares  
fitting,  
calculation and  
interpretation  
of coupling  
terms, semi-  
classical (WKB)  
approximation,  
transition  
intensities and  
interference*



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*effects, direct  
photofragmentat  
ion  
(dissociation  
and ionization)  
and indirect ph  
otofragmentatio  
n (predissociat  
ion and  
autoionization)  
processes,  
visualization  
of*

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*intramolecular  
dynamics,  
quantum beats  
and  
wavepackets,  
treatment of  
decaying quasi-  
eigenstates  
using a complex  
Heff model, and  
concluding with  
some examples  
of polyatomic*

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*molecule*

*dynamics.*

*Students will  
discover that  
there is a  
fascinating  
world of cause-  
and-effect  
localized  
dynamics  
concealed  
beyond the  
reduction of*

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*spectra to  
archival  
molecular  
constants and  
the exact ab  
initio  
computation of  
molecular  
properties.  
Professional sp  
ectroscopists,  
kinetics, ab  
initio*

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*theorists will appreciate the practical, simplified-model, and rigorous theoretical approaches discussed in this book. Key Features:*

- *A fundamental reference for all spectra of*

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*small, gas-phase molecules. • It is the most up-to-date and comprehensive book on the electronic spectroscopy and dynamics of diatomic molecules. •*

*The authors*

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*pioneered the  
development of  
many of the  
experimental  
methods,  
concepts,  
models, and  
computational  
schemes  
described in  
this book. A  
fundamental  
reference for*

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*all spectra of  
small, gas-  
phase  
molecules. It  
is the most up-  
to-date and  
comprehensive  
book on the  
electronic  
spectroscopy  
and dynamics of  
diatomic  
molecules. The*



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*authors*

*pioneered the  
development of  
many of the  
experimental  
methods,  
concepts,  
models, and  
computational  
schemes  
described in  
this book.*

*Research,*

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*Action and  
Policy:  
Addressing the  
Gendered  
Impacts of  
Climate Change  
presents the  
voices of women  
from every  
continent,  
women who face  
vastly  
different*

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*climate events  
and challenges.  
The book  
heralds a new  
way of  
understanding  
climate change  
that  
incorporates  
gender justice  
and human  
rights for all.  
Spatio-temporal*

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*Analysis and  
Optimization of  
Land Use/Cover  
Change*

*A-level Physics  
Challenging  
Drill Questions  
(Yellowreef)*

*17th*

*International  
Workshop on the  
Physics of  
Semiconductor*

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*Devices 2013*

*Language Across  
the Curriculum  
& CLIL in  
English as an  
Additional  
Language (EAL)  
Contexts  
Geothermal  
Water  
Management  
Integrating  
Theory and*

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***Practice***

**The volume is  
collection of articles  
treating the topic of  
human improvement  
/enhancement from a  
variety of  
perspectives –  
philosophical,  
literary, medical,  
genetic, sociological,  
legal etc. The  
chapters in this**

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**volume treat not only those aspects that most immediately come to mind when one thinks of ‘human enhancement’, such as genetic engineering, cloning, artificial implants and artificial intelligence etc. Somewhat less obvious aspects**

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**include evolutionary perspectives in connection with the prolongation of the human lifespan, plastic surgery since its beginnings, and questions such as whether the distinction between ‘natural’ and ‘artificial’ can really be drawn at all and**



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**how it has been  
conceived across the  
ages, or what the  
legal implications are  
of recent  
developments and  
techniques. Many  
papers make links to  
the representation of  
these developments  
in popular culture,  
from Jules Verne  
through Aldous**

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**Huxley to the movie Gattaca, address the hopes and fears that come with them as well as the question how realistic these are. While all chapters are written by scientists at the international top of their respective fields, all are accessible to a non-**

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**specialist audience  
and eminently  
readable. We believe  
that they represent a  
state-of-the art  
overview of  
questions that are of  
interest to a large  
audience. The book  
thus targets a non-  
specialist audience  
with an interest in  
philosophical,**

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**sociological,  
scientific and legal  
issues involved in  
both traditional and  
recent matters  
concerning the desire  
of mankind to  
improve itself, the  
human body, the  
human mind and the  
human condition. It  
is unique in that it  
brings together all**

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**these aspects within  
a coherent and  
cohesive collection.  
The purpose of this  
workshop is to  
spread the vast  
amount of  
information  
available on  
semiconductor  
physics to every  
possible field  
throughout the**

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**scientific**

**community. As a result, the latest findings, research and discoveries can be quickly disseminated. This workshop provides all participating research groups with an excellent platform for interaction and collaboration with**

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**other members of  
their respective  
scientific  
community. This  
workshop's technical  
sessions include  
various current and  
significant topics for  
applications and  
scientific  
developments,  
including ●  
Optoelectronics ●**

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**VLSI & ULSI**

**Technology •**

**Photovoltaics •**

**MEMS & Sensors •**

**Device Modeling and**

**Simulation • High**

**Frequency/ Power**

**Devices •**

**Nanotechnology and**

**Emerging Areas •**

**Organic Electronics**

**• Displays and**

**Lighting Many**



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**eminent scientists  
from various  
national and  
international  
organizations are  
actively participating  
with their latest  
research works and  
also equally  
supporting this mega  
event by joining the  
various organizing  
committees.**

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**Drawing on more than 40 years of experience conducting applied social science research and program evaluation, author Michael Quinn Patton has crafted the most comprehensive and systematic book on qualitative research**

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**and evaluation  
methods, inquiry  
frameworks, and  
analysis options  
available today. Now  
offering more  
balance between  
applied research and  
evaluation, this  
Fourth Edition of  
Qualitative Research  
& Evaluation  
Methods illuminates**

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**all aspects of  
qualitative inquiry  
through new  
examples, stories,  
and cartoons; more  
than a hundred new  
summarizing and  
synthesizing  
exhibits; and a wide  
range of new  
highlight  
sections/sidebars  
that elaborate on**

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**important and emergent issues. For the first time, full case studies are included to illustrate extended research and evaluation examples. In addition, each chapter features an extended "ruminations," written in a voice**

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**and style more  
emphatic and  
engaging than  
traditional textbook  
style, about a core  
issue of persistent  
debate and  
controversy.**

**This book covers the  
elective module  
'Energy & Use of  
Energy' of the  
HKDSE (the Hong**

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**Kong Diploma of  
Secondary Education  
Examination)**

**Physics**

**Examination. It**

**contains**

**comprehensive notes**

**of the relevant**

**knowledge for the**

**examination, so that**

**it can be used as a**

**coursebook as well.**

**It contains a wealth**

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**of multiple choice questions and structured questions in examination format, with detailed solutions, to help students consolidate their concepts and master their skills.**

**Bioelectricity  
A-level Physics  
Critical Guide  
(Yellowreef)**



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**Human**

**Enhancement**

**Between Fiction and**

**Fascination**

**QNP2002. June**

**9–14, 2002. Jülich,**

**Germany**

**Refereed and**

**selected**

**contributions from**

**International**

**Conference on**

**Quark Nuclear**

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**Physics**

**Combinatorics,  
Quantum Field  
Theory, and  
Quantum Gravity  
Models**

The masses of  
neutron stars are  
limited by an  
instability to  
gravitational  
collapse and an  
instability driven by

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gravitational waves  
limits their spin.  
Their oscillations  
are relevant to x-ray  
observations of  
accreting binaries  
and to gravitational  
wave observations  
of neutron stars  
formed during the  
coalescence of  
double neutron-star  
systems. This

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volume includes more than forty years of research to provide graduate students and researchers in astrophysics, gravitational physics and astronomy with the first self-contained treatment of the structure, stability and

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oscillations of  
rotating neutron  
stars. This  
monograph treats  
the equations of  
stellar equilibrium;  
key approximations,  
including slow  
rotation and  
perturbations of  
spherical and  
rotating stars;  
stability theory and

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its applications, from convective stability to the r-mode instability; and numerical methods for computing equilibrium configurations and the nonlinear evolution of their oscillations. The presentation of fundamental

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equations, results and applications is accessible to readers who do not need the detailed derivations.

- completely covers all question-types since 2000
- exposes all-inclusive “trick” questions
- makes available full set of

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all possible step-by-step solution approaches • provides examination reports revealing common mistakes & unusual wrong habits • gives short side-reading notes • teaches easy-to-implement check-back procedure •



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advanced trade  
book • complete  
edition eBook  
available

This book proposes  
a method to solve  
land use problems,  
and has made some  
significant  
contributions to the  
land use analysis  
and optimization  
study fields. Firstly,

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three spatio-temporal logit models for land use change analysis, namely, geographically and temporally weighted logit model (GTWLM), spatio-temporal panel logit model (ST-PLM) and generalized spatio-temporal logit

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model (GSTLM), are proposed. GTWLM, which considers spatio-temporal non-stationarity, includes temporal data in a spatio-temporal framework by proposing a spatiotemporal distance. ST-PLM incorporates the spatio-temporal

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correlation and individual effect in one model. By integrating GTWLM and ST-PLM, the GSTLM explores spatio-temporal non-stationarity and correlations simultaneously, whilst considering their individual effects to construct

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an integrated model. Secondly, a MOO-based two-level spatial planning of land use is proposed. The spatial planning aims at managing and coordinating the land use at different geographic extents and involves spatial layouts and

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structures of land use at different levels. In spatial planning, GIS and Remote Sensing are used to evaluate, analyze, and measure environmental, economic and social issues. The quantitative relationships

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between these objectives and spatial land use allocation are then used as rules in the MOO process to simulate environmental conditions under different spatial land use allocation scenarios. The book features a case

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study of Shenzhen city, the most important Special Economic Zone in China. This book will be of interest to academics and professionals in the fields of urban planning, land resource management, remote sensing and



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geographic  
information  
systems.

The second edition  
of this book series  
"Physics Exam-  
Builder for HKDSE"  
is written in  
accordance with the  
amended NSS  
physics curriculum  
guidelines for 2016  
HKDSE and

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onwards. Book 2 covers the topics of Mechanics, which lays the foundation of physics and the concepts are also used in other sections of the syllabus. Moreover, this section carries a significant weight in the HKDSE examination. It

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takes time for students to grasp the concepts and master the necessary skills in solving problems. Some examination questions on this section cover integrated topics and require candidates' ability to comprehend an

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unfamiliar situation  
and to apply  
suitable knowledge  
in solving problems.  
In this book,  
although topics are  
grouped clearly in  
different chapters,  
some questions in a  
later chapter require  
application of  
knowledge learned  
in previous

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chapters. This will help candidates to consolidate their knowledge and to build up their confidence in tackling problems demanding higher order skills.

A-level Physics  
Challenging Drill  
Solutions  
(Yellowreef)

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Energy & Use of  
Energy

O-level Physics  
Complete Yearly  
Solutions 2012

(Yellowreef)

Singapore PSLE  
Mathematics

Challenging

Practice Questions  
(Yellowreef)

Shenzhen as a  
Case Study

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Scientific and  
Technical  
Aerospace Reports  
**#1 NEW YORK  
TIMES  
BESTSELLER A  
landmark  
volume in  
science writing  
by one of the  
great minds of  
our time,  
Stephen**

**Hawking's book explores such profound questions as: How did the universe begin—and what made its start possible? Does time always flow forward? Is the universe**



**unending—or  
are there  
boundaries? Are  
there other  
dimensions in  
space? What  
will happen  
when it all  
ends? Told in  
language we all  
can understand,  
A Brief History  
of Time plunges**

**into the exotic realms of black holes and quarks, of antimatter and “arrows of time,” of the big bang and a bigger God—where the possibilities are wondrous and unexpected.**

**With exciting  
images and  
profound  
imagination,  
Stephen  
Hawking brings  
us closer to the  
ultimate secrets  
at the very  
heart of  
creation.**

**• candidates /  
tutors must**

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**have noticed  
that the exam  
questions has  
gone towards  
tertiary year-1  
level, yet the  
syllabus does  
not reflect this  
change, we  
have made the  
necessary  
inclusion •  
provides the**

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**critical guide to  
lead one  
through this  
highly  
demanding  
knowledge  
requirement •  
total exam-  
compatibility in  
notes and  
examples •  
exact and  
accurate**

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**definitions •  
most efficient  
method of  
learning, hence  
saves time •  
advanced trade  
book •  
Complete  
edition and  
concise edition  
eBooks  
available  
• 10 sets of up-**

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**to-date ordinary  
examination  
papers  
modelled  
closely after the  
GCE  
examination •  
answer keys  
intentionally  
withheld to  
simulate actual  
examination  
condition • full**

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schemes and  
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questions  
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the actual  
examination •  
complete  
edition and**



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**This book will  
be of interest to  
a broad  
readership,  
regardless of  
whether they  
have a  
background in  
sociolinguistics,  
functional**

**linguistics or  
genre theories.  
It presents an  
accessible “met  
a-language”  
(i.e. a language  
for talking  
about  
language) that  
is workable and  
usable for  
teachers and  
researchers**

**from both  
language and  
content  
backgrounds,  
thus facilitating  
collaboration  
across content  
and language  
subject panels.  
Chapters 1 to 3  
lay the  
theoretical  
foundation of**

**this common meta-language by critically reviewing, systematically presenting and integrating key theoretical resources for teachers and researchers in this field. In turn, Chapters**

**4 to 7 focus on  
issues in  
pedagogy and  
assessment,  
and on school-  
based  
approaches to  
LAC and CLIL,  
drawing on  
both research  
studies and the  
experiences of  
front-line**

**teachers and  
school  
administrators.  
Chapter 8  
provides a  
critical and  
reflexive angle  
on the field by  
asking difficult  
questions  
regarding how  
LAC and CLIL  
are often**

**situated in  
contexts  
characterized  
by inequality of  
access to the  
linguistic and  
cultural  
capitals, where  
the local  
languages of  
the students  
are usually  
neglected or**

**viewed unfavourably in relation to the L2 in mainstream society, and where teachers are usually positioned as recipients of knowledge rather than makers of**



**knowledge. In  
closing,  
Chapter 9  
reviews the  
state of the art  
in the field and  
proposes  
directions for  
future inquiry.  
Revised and  
Enlarged  
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Research,  
Action and  
Policy:  
Addressing the  
Gendered  
Impacts of  
Climate Change  
A-level Physics  
Challenging  
Practice  
Questions**

*Page 114/171*

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**Challenging**

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***complete***

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question-types  
since 2000 •  
comprehensive  
“trick”  
question-types  
revealed • full  
set of all  
possible step-  
by-step  
solution  
approaches •  
examination**

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& unusual wrong  
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side-reading  
notes • easy-to-  
implement check-  
back procedure  
• complete  
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available  
- question-**

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IGCSE  
examinations -  
conform to  
latest IGCSE  
syllabus -  
complete answer  
keys - complete  
step-by-step  
solutions  
available  
separately -  
arrange in**

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***topical order  
to facilitate  
drilling -  
complete  
encyclopedia of  
question-types  
- comprehensive  
“trick”  
questions  
revealed -  
tendency  
towards  
carelessness is***

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learning, hence  
saves time -  
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true  
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all question-  
types • exposes  
“surprise &  
trick”  
questions •  
complete answer  
keys • most  
efficient  
method of**

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**learning, hence  
saves time •  
arrange from  
easy-to-hard  
both by topics  
and question-  
types to  
facilitate easy  
absorption •  
full set of  
step-by-step  
solution  
approaches**

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level, GCE A-  
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view on the**

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issues in  
polymer physics  
is provided  
with an aim at  
students in  
chemistry,  
chemical  
engineering,  
condensed  
matter physics  
and material  
science***

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***courses. An updated translation by the author, a renowned Chinese chemist, it has been proven to be an effective source of learning for many years. Up-to-date***



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***developments  
are reflected  
throughout the  
work in this  
concise  
presentation of  
the topic. The  
author aims at  
presenting the  
subject in an  
efficient  
manner, which  
makes this***

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*particularly  
suitable for  
teaching  
polymer physics  
in settings  
where time is  
limited,  
without having  
to sacrifice  
the extensive  
scope that this  
topic demands.*

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A Molecular**

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Rotating  
Relativistic  
Stars  
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• an expert and  
complete guide to  
lead one through  
abstract***

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wisdom • enable  
accurate, complete  
and independent  
self education •  
holistic question  
answering  
techniques • exact  
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**Playlist ([?][?][?]) : <https://www.youtube.com/playlist?list=PLzDe9mOi1K8odYV54ZMTkj2m7BWvMU9pB>**

**"Now, however,  
we face an Age of**

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***Discontinuity in world economy and technology. We might succeed in making it an age of great economic growth as well. But the one thing that is certain so far is that it will be a period of change-in technology and in economic***



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***policy, in industry structures and in economic theory, in the knowledge needed to govern and manage, and in economic issues. While we have been busy finishing the great nineteenth-century economic edifice, the foundations***

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***have shifted  
beneath our feet."  
Peter F. Drucker,  
1968 The Age of  
Discontinuity, p.  
10 This project has  
had a long  
gestation period,  
probably  
ultimately dating  
to a youthful  
obsession with  
watershed divides***

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***and boundaries.  
My awareness of  
the problem of  
discontinuity in  
economics dates  
to my first  
encounter with  
the capital theory  
paradoxes in the  
late 1960s, the  
fruits of which can  
be seen in Chapter  
8 of this book.***

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***This awareness led to a frustration over the apparent lack of a mathematics of discontinuity, a lack that was in the process of rapidly being overcome at that time.***

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***aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.***

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***Time***

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General Theory of  
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This text is an introduction to electrophysiology, following a quantitative approach. The first chapter

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summarizes  
much of the  
mathematics  
required in the  
following  
chapters. The  
second chapter  
presents a very  
concise overview  
of the general  
principles of  
electrical fields



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and current flow, mostly established in physical science and engineering, but also applicable to biological environments.

The following five chapters are the core material

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of this text.

They include descriptions of how voltages come to exist across membranes and how these are described using the Nernst and Goldman equations

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(Chapter 3), an examination of the time course of changes in membrane voltages that produce action potentials

(Chapter 4), propagation of action potentials down fibers

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(Chapter 5), the response of fibers to artificial stimuli such as those used in pacemakers (Chapter 6), and the voltages and currents produced by these active processes in the

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surrounding  
extracellular  
space (Chapter  
7). The  
subsequent  
chapters present  
more detailed  
material about  
the application of  
these principles  
to the study of  
cardiac and

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neural electrophysiology, and include a chapter on recent developments in membrane biophysics. The study of electrophysiology has progressed rapidly because of the precise,

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delicate, and  
ingenious  
experimental  
studies of many  
investigators.  
The field has  
also made great  
strides by  
unifying the  
numerous  
experimental  
observations

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through the development of increasingly accurate theoretical concepts and mathematical descriptions. The application of these fundamental principles has in turn



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formed a basis  
for the solution  
of many different  
electrophysiological  
problems.

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contains the  
refereed and  
selected  
contributions  
from the  
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Quark Nuclear  
Physics  
(QNP2002), held  
from 9 to 14  
June 2002 in  
Jülich,  
Germany.

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complete  
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Availability of  
and adequate  
accessibility to  
freshwater and  
energy are two  
key technological  
and scientific  
problems of  
global

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significance. At the end of the 20th century, the deficit of water for human consumption and economic application forced us to focus on rational use of resources. Increasing the

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use of renewable energy sources and improving energy efficiency is a challenge for the 21st century. Geothermal energy is heat energy generated and stored in the

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Earth,  
accumulated in  
hydrothermal  
systems or in  
dry rocks within  
the Earth ' s  
crust, in amounts  
which constitute  
the energy  
resources. The  
sustainable  
management of

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geothermal  
energy  
resources should  
be geared  
towards  
optimization of  
energy recovery,  
but also towards  
rational  
management of  
water resources  
since geothermal



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water serves both as energy carrier and also as valuable raw material.

Geothermal waters, depending on their hydrogeothermal characteristics, the lithology of

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the rocks involved, the depth at which the resources occur and the sources of water supply, may be characterized by very diverse physicochemical parameters. This factor largely

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determines the technology to be used in their exploitation and the way the geothermal water can be used. This book is focused on the effective use of geothermal water and

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renewable  
energy for future  
needs in order to  
promote modern,  
sustainable and  
effective  
management of  
water resources.  
The research  
field includes  
crucial new  
areas of study:

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- an improvement in the management of freshwater resources through the use of residual geothermal water;
- a review of the technologies available in the

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field of  
geothermal  
water treatment  
for its (re)use  
for energetic  
purposes and  
freshwater  
production, and

- the  
development of  
balneotherapy.

The book is

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aimed at  
professionals,  
academics and  
decision makers  
worldwide, water  
sector  
representatives  
and  
administrators,  
business  
enterprises  
specializing in

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renewable  
energy  
management and  
water treatment,  
working in the  
areas of  
geothermal  
energy usage,  
water resources,  
water supply and  
energy planning.  
This book has



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the potential to  
become a  
standard text  
used by  
educational  
institutions and  
research &  
development  
establishments  
involved in the  
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