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The mathematical sciences are part of nearly all aspects of everyday life-the discipline has underpinned such beneficial modern capabilities as Internet search,

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medical imaging, computer animation, numerical weather predictions, and all types of digital communications. The Mathematical Sciences in 2025 examines the current state of the mathematical sciences and explores the changes needed for the discipline to be in a strong position and able to maximize its contribution to

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the nation in 2025. It finds the vitality of the discipline excellent and that it contributes in expanding ways to most areas of science and engineering, as well as to the nation as a whole, and recommends that training for future generations of mathematical scientists should be re-assessed in light of the

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increasingly cross-disciplinary nature of the mathematical sciences. In addition, because of the valuable interplay between ideas and people from all parts of the mathematical sciences, the report emphasizes that universities and the government need to continue to invest in the full spectrum of the mathematical

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sciences in order for the whole enterprise to continue to flourish long-term.

Maritime Economics Routledge

A groundbreaking book in its unflinchingly honest portrayal of childhood dilemmas, "Harriet the Spy" remains one of the most acclaimed children's novels ever written.

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Human Rights Law

Applied Mechanics Reviews

Directions

The Mathematical Sciences in 2025
with CD-ROM

Principles, Practice and Economics of
Plant and Process Design

Get your best grades with this

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***Cambridge International AS and
A Level Business Studies
Revision Guide. - Manage your
own revision with step-by-step
support from experienced
examiners Sandie Harrison and
David Milner - Maintain an
appropriate international focus in***

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exams with examples and case studies from around the world - Get the top marks by applying business studies terms accurately with the help of definitions and key words Use the Revision Guide to prepare for the big day: - Plan and pace your

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***revision with the revision
planner- Use the expert tips to
clarify key points - Test yourself
with rapid-fire questions and
answers and tick off each topic
as you complete it - Practise your
exam skills with exam-style
questions Also available:***

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***Cambridge International AS and
A Level Business Studies
textbook by Malcolm Surridge
and Andrew Gillespie (ISBN:
9781444181395). This title has
not been through the Cambridge
endorsement process.
Chemical Engineering Design,***

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Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and

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standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and

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economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet

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***calculations, plus over 150
Patent References for
downloading from the companion
website. Extensive instructor
resources, including 1170 lecture
slides and a fully worked
solutions manual are available to
adopting instructors. This text is***

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***designed for chemical and
biochemical engineering students
(senior undergraduate year, plus
appropriate for capstone design
courses where taken, plus
graduates) and lecturers/tutors,
and professionals in industry
(chemical process, biochemical,***

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pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and

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optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant

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***design, flowsheet development
and revamp design Significantly
increased coverage of capital
cost estimation, process costing
and economics New chapters on
equipment selection, reactor
design and solids handling
processes New sections on***

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***fermentation, adsorption,
membrane separations, ion
exchange and chromatography
Increased coverage of batch
processing, food, pharmaceutical
and biological processes All
equipment chapters in Part II
revised and updated with current***

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***information Updated throughout
for latest US codes and
standards, including API, ASME
and ISA design codes and ANSI
standards Additional worked
examples and homework
problems The most complete and
up to date coverage of***

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***equipment selection 108 realistic
commercial design projects from
diverse industries A rigorous
pedagogy assists learning, with
detailed worked examples, end of
chapter exercises, plus
supporting data and Excel
spreadsheet calculations plus***

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***over 150 Patent References, for
downloading from the companion
website Extensive instructor
resources: 1170 lecture slides
plus fully worked solutions
manual available to adopting
instructors
This book constitutes the***

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***refereed proceedings of the 12th
International Conference on
Intelligent Computer
Mathematics, CICM 2019, held in
Prague, Czech Republic, in July
2019. The 19 full papers
presented were carefully
reviewed and selected from a***

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total of 41 submissions. The papers focus on digital and computational solutions which are becoming the prevalent means for the generation, communication, processing, storage and curation of mathematical information.

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Separate communities have developed to investigate and build computer based systems for computer algebra, automated deduction, and mathematical publishing as well as novel user interfaces. While all of these systems excel in their own right,

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their integration can lead to synergies offering significant added value.

***Software Language Engineering
Formulas and Tables for the
Calculation of Mutual and Self-
inductance***

Harriet the Spy

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***Exploring the Impact of Policies
on Access to and Provision of HIV
Care***

***IGCSE Cambridge International
Mathematics (0607) Extended
Second International Conference,
SLE 2009, Denver, CO, USA,
October 5-6, 2009 Revised***

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Selected Papers

Ott and Longnecker's AN
INTRODUCTION TO
STATISTICAL METHODS AND
DATA ANALYSIS, 6th
Edition, International
Edition provides a broad

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overview of statistical
methods for advanced
undergraduate and graduate
students from a variety of
disciplines who have
little or no prior course
work in statistics. The

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authors teach students to solve problems encountered in research projects, to make decisions based on data in general settings both within and beyond the university setting, and to

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become critical readers of statistical analyses in research papers and in news reports. The first eleven chapters present material typically covered in an introductory

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statistics course, as well as case studies and examples that are often encountered in undergraduate capstone courses. The remaining chapters cover regression

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modeling and design of
experiments.

Shipping is by far the
most significant mode of
transportation for the
carriage of freight. In
terms of volume alone, no

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other mode comes close.
Its dominance is even more
overwhelming when
distances are accounted
for. This book is
concerned with the
economics of this pivotal

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mode of transportation. It reveals that the influences on the development and current state of shipping economics research are extremely eclectic. The

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various chapters in the book represent areas that are of central concern to ongoing research in the field. As such, the book is useful to students, researchers,

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industrialists, policy
makers and consultants.
The authors of the
contributed chapters are
some of the leading names
in the world of shipping
economics, addressing a

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number of diverse areas:
The econometric modeling
of shipping markets;
Shipping finance (a
critical issue in such a
capital intensive
industry); Fiscal policy

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(and its impact on an
international industry
with great asset mobility)
and Safety and security
(aspects that have risen
to prominence with
increasing concerns over

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the environment and international terrorism). Ultimately, while shipping as a business depends upon trade, it is absolutely certain that the business of trade depends upon

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shipping. The final two chapters, therefore, incorporate aspects of network economics, welfare economics and international trade theory to analyze where and how

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shipping sits within the
wider perspective of
industrial supply chains.
Professor Kevin Cullinane,
BA BSc MSc PhD FCILT CNI
Professor Kevin Cullinane
is Chair in Marine

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Transport and Management
at the University of
Newcastle in the U.K. He
was previously Professor
and Head of the Department
of Shipping and Transport
Logistics at the Hong Kong

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Polytechnic University,
Head of the Centre for
International Shipping and
Transport at Plymouth
University, Senior Partner
in his own transport
consultancy company and

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Research Fellow at the
University of Oxford
Transport Studies Unit. He
is a Fellow of the
Chartered Institute of
Logistics and Transport
and has been a transport

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adviser to the governments
of Hong Kong, Egypt, Chile
and the U.K. He holds
visiting Professorships at
a number of institutions
and an Honorary
Professorship at the

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University of Hong Kong.
The theory of
objectification offers a
perspective to
conceptualize learning as
a collective cultural-
historical process and to

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transform classrooms into
sites of communal life
where students make the
experience of an ethics of
solidarity, plurality, and
inclusivity.

Shipping Economics

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**Cambridge International AS
and A Level Business
Revision Guide
Monthly Catalog of United
States Government
Publications
Profiles of American**

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Colleges -- 2008

Chemical Engineering

Design

Web Application Design

Patterns

With the widespread use of
highly active anti-retroviral

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treatment (HAART), HIV has become a chronic, rather than a fatal, disease. But for their treatment to succeed, patients require uninterrupted care from a health care provider and

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uninterrupted access to anti-HIV medications. The IOM identifies federal, state, and private health insurance policies that inhibit HIV-positive individuals from initiating or continuing their

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care.

Covers all the core areas of human rights law, combining an engaging approach with helpful learning features and plenty of headings to make this an ideal text for those

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new to the subject
Summaries, definitions,
discussion topics and further
reading references are
integrated throughout the
text and presented in a fresh
colour design to illuminate

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legal complexities and
highlight essential concepts
Reflective questions are
included at the end of each
chapter, with suggested key
issues for consideration
provided on the book's

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accompanying website.
These encourage students to
reinforce their learning and
foster best practice in
developing a reasoned and
structured approach to
problem solving An

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accompanying website provides updates on case law and legislative developments as well as an interactive test bank of multiple choice questions to help students consolidate

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their knowledge Fresh two-colour text design makes the book easy to navigate and highlights cross references and learning features Human Rights Law is written in an engaging and lively manner

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with an emphasis on explaining the key topics covered on human rights law courses with clarity. No previous knowledge of the subject is assumed but the book provides a thorough

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introduction to the Human Rights Act 1998 and the way in which the Act gives effect to the European Convention on Human Rights. It looks at the main terms and implications of the

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convention rights
themselves, highlighting
some of the more complex
and controversial issues of
the subject.

"New wave mental maths is
a series of student

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workbooks, written to provide a comprehensive and structured daily mental maths program for students in Australian primary schools."--Foreword.
4th International Conference,

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MKM 2005, Bremen,
Germany, July 15-17, 2005,
Revised Selected Papers
HIV Screening and Access to
Care
A Vygotskian Perspective on
Knowing and Becoming in

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Mathematics Teaching and
Learning
Ubiquitous Networking
Profiles of American Colleges
Handbook of Unmanned
Aerial Vehicles

Software is pervasive in our lives.

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We are accustomed to dealing with the failures of much of that software - restarting an application is a very familiar solution. Such solutions are unacceptable when the software controls our cars, airplanes and medical devices or manages our

private information. These applications must run without error. SPARK provides a means, based on mathematical proof, to guarantee that a program has no errors. SPARK is a formally defined programming language and a set of verification tools

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***specifically designed to support
the development of software used
in high integrity applications.
Using SPARK, developers can
formally verify properties of their
code such as information flow,
freedom from runtime errors,
functional correctness, security***

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***properties and safety properties.
Written by two SPARK experts,
this is the first introduction to
the just-released 2014 version. It
will help students and developers
alike master the basic concepts
for building systems with SPARK.
Ever notice that—in spite of their***

pervasiveness—designing web applications is still challenging? While their benefits motivate their creation, there are no well-established guidelines for design. This often results in inconsistent behaviors and appearances, even among web applications created

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by the same company. Design patterns for web applications, similar in concept to those for web sites and software design, offer an effective solution. In Web Application Design Patterns, Pawan Vora documents design patterns for web applications by

not only identifying design solutions for user interaction problems, but also by examining the rationale for their effectiveness, and by presenting how they should be applied. Design interfaces faster, with a better rationale for the solutions

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you choose. Learn from over more than 100 patterns, with extensive annotation on use and extension. Take a short-cut into understanding the industry with more than 500 full-color screenshots. Like a data-guzzling turbo

engine, advanced data mining has been powering post-genome biological studies for two decades. Reflecting this growth, Biological Data Mining presents comprehensive data mining concepts, theories, and applications in current biological

and medical research. Each chapter is written by a distinguished team of interdisciplinary data mining researchers who cover state-of-the-art biological topics. The first section of the book discusses challenges and opportunities in

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analyzing and mining biological sequences and structures to gain insight into molecular functions. The second section addresses emerging computational challenges in interpreting high-throughput Omics data. The book then describes the relationships

between data mining and related areas of computing, including knowledge representation, information retrieval, and data integration for structured and unstructured biological data. The last part explores emerging data mining opportunities for

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biomedical applications. This volume examines the concepts, problems, progress, and trends in developing and applying new data mining techniques to the rapidly growing field of genome biology. By studying the concepts and case studies presented, readers

will gain significant insight and develop practical solutions for similar biological data mining projects in the future.

***The Theory of Objectification
12th International Conference,
CICM 2019, Prague, Czech
Republic, July 8-12, 2019,***

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***Proceedings
Cambridge International AS and
A Level Business Studies Revision
Guide***

***MLA International Bibliography
of Books and Articles on the
Modern Languages and
Literatures***

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***Includes FREE ACCESS to
Barron's web-based college
search engine***

***OAR Cumulative Index of
Research Results***

*The principles of chemical
oceanography provide insight into*

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the processes regulating the marine carbon cycle. The text offers a background in chemical oceanography and a description of how chemical elements in seawater and ocean sediments are used as tracers of physical, biological,

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chemical and geological processes in the ocean. The first seven chapters present basic topics of thermodynamics, isotope systematics and carbonate chemistry, and explain the influence of life on ocean chemistry and how

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it has evolved in the recent (glacial-interglacial) past. This is followed by topics essential to understanding the carbon cycle, including organic geochemistry, air-sea gas exchange, diffusion and reaction kinetics, the marine and atmosphere carbon

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*cycle and diagenesis in marine
sediments. Figures are available to
download from [www.cambridge.org/
9780521833134](http://www.cambridge.org/9780521833134). Ideal as a textbook
for upper-level undergraduates and
graduates in oceanography,
environmental chemistry,*

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*geochemistry and earth science and
a valuable reference for researchers
in oceanography.*

*This authoritative reference enables
the design of virtually every type of
inductor. It features a single simple
formula for each type of inductor,*

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*together with tables containing
essential numerical factors. 1946
edition.*

*The latest information on
enrollments, tuition and fees,
academic programs, campus
environment, available financial*

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*aid, and much more make the 29th
edition of Profiles of American
Colleges America's most
comprehensive and authoritative
source for college-bound high
school students. Every accredited
four-year college in the United*

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States is profiled, and readers are directed to a brand-new Barron's Web site featuring a FREE ACCESS college search engine that presents exclusive on-line information to help students match their academic plans and aptitudes with the admission

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requirements and academic programs of each school. The book presents profiles of more than 1,650 colleges, each profile including details on:

- Admission requirements*
- Library and computer facilities*
- Admissions*

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*procedures for freshmen • Campus
safety and security • Thumbnail
descriptions of faculty •
Requirements for a degree • Athletic
facilities • Extracurricular activities
• E-mail addresses • College fax
numbers and web sites • Admissions*

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Contacts • and more Schools are rated according to Barron's reliable competitiveness scale, which ranges from "Noncompetitive" to "Most Competitive." The book's tinted pages section presents an Index of

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College Majors that lists all available major study programs at every school. Also profiled are excellent colleges in Canada and several other countries, as well as brief profiles of religious colleges, and American colleges based in

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foreign countries.

Accounting Higher

Intelligent Computer Mathematics

Engineering Economic Analysis

The State of the Art

4th International Symposium, UNet

2018, Hammamet, Tunisia, May 2 –

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*5, 2018, Revised Selected Papers
120 Years of American Education
The technology of
artificial intelligence is
increasing its importance
thanks to the rapid growth
of the Internet and*

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computer technology. In Japan, the annual conference series of JSAI (The Japanese Society for Artificial Intelligence) has been playing a leading role in promoting AI

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research, and selected papers of the annual conferences have been published in the LNAI series since 2003. This book consists of award papers from the 21st

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annual conference of JSAI (JSAI 2007) and selected papers from the four co-located workshops. Seven papers were awarded among more than 335 presentations in the

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*conference and 24 papers
were selected from a total
of 48 presentations in the
co-located workshops:
Logic and Engineering of
Natural Language Semantics
2007 (LENLS 2007), the*

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*International Workshop on
Risk Informatics (RI
2007), the 5th Wo- shop on
Learning with Logics and
Logics for Learning (LLLL
2007), and the 1st
International Workshop on*

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Juris-informatics (JURISIN 2007). The award papers from JSAI 2007 underwent a rigorous selection process. Firstly, recommendations were made from three people (Session

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*Chair, session commentator
and one PC member) in each
session, and then
recommended - pers were
carefully reviewed and
voted for by PC members
for ?nal selection.*

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This volume of official SQA past papers is designed to help you prepare fully for your exams. It contains a wide variety of actual exam questions and helps you

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*practise in all topic
areas and build up your
confidence.*

*This book constitutes the
thoroughly refereed post-
conference proceedings of
the Second International*

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*Conference on Software
Language Engineering, SLE
2009, held in Denver, CO,
USA, in October 2009. The
15 revised full papers and
6 revised short paper
presented together with 2*

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*tool demonstration papers
were carefully reviewed
and selected from 75
initial submissions. The
papers are organized in
topical sections on
language and model*

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*evolution, variability and
product lines, parsing,
compilation, and demo,
modularity in languages,
and metamodeling and demo.
JSAI 2007 Conference and
Workshops, Miyazaki,*

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*Japan, June 18-22, 2007,
Revised Selected Papers
Inductance Calculations
Commerce Business Daily
Monthly Catalogue, United
States Public Documents
Chemical Oceanography and*

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the Marine Carbon Cycle Maritime Economics

Up-to-date facts and figures
on enrollments, tuition and
fees, academic programs,
campus environment,
available financial aid, and
much more make the 28th

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edition of Profiles of American Colleges America's most authoritative data source for college-bound high school students, their parents, and high school guidance counselors. More than 1,650 accredited four-

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year colleges are profiled. An interactive CD-ROM enclosed with the directory guides students to specific schools when they enter details describing their personal academic plans and aptitudes. In addition to

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the above-cited information,
each college profile gives
details on: • Admission
requirements • Library and
computer facilities •
Admissions procedures for
freshmen • Campus safety and
security • Thumbnail

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descriptions of faculty •
Requirements for a degree •
Athletic facilities •
Extracurricular activities •
E-mail addresses • College
fax numbers and web sites •
Admissions Contacts • and
much more Schools are rated

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according to Barron's well-known competitiveness scale, from "Noncompetitive" to "Most Competitive." Unlike some other publications, Barron's refrains from the unreliable practice of ranking colleges on a first-

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through-last basis. The book's tinted pages section presents a quick-reference Index of College Majors that lists all available major study programs at each school. Also profiled are many excellent colleges in

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Canada and several other countries, as well as brief profiles of religious colleges, and American colleges based in foreign countries.

Climate science paints a bleak picture: The continued

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growth of greenhouse gas emissions is increasingly likely to cause irreversible and catastrophic effects. Urgent action is needed to prepare for the initial rounds of climatic change, which are already

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unstoppable. While the opportunity to avert all climate damage has now passed, well-designed mitigation and adaptation policies, if adopted quickly, could still greatly reduce the likelihood of the

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most tragic and far-reaching impacts of climate change. Climate economics is the bridge between science and policy, translating scientific predictions about physical systems into projections about economic

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growth and human welfare that decision makers can most readily use but it has too often consisted of an overly technical, academic approach to the problem. Getting climate economics right is not about

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publishing the cleverest
article of the year but
rather about helping solve
the dilemma of the century.
The tasks ahead are
daunting, and failure,
unfortunately, is quite
possible. Better approaches

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to climate economics will allow economists to be part of the solution rather than part of the problem. This book analyzes potential paths for improvement. This book constitutes the thoroughly refereed post-

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proceedings of the 4th
International Conference on
Mathematical Knowledge
Management, MKM 2005, held
in Bremen, Germany in July
2005. The 26 revised full
papers presented were
carefully selected during

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two rounds of reviewing and improvement from 38 submissions. The papers in this volume cover the whole area of mathematical knowledge management. Topics range from foundations and the representational and

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document-structure aspects of mathematical knowledge, over process questions like authoring, migration, and consistency management by automated theorem proving to applications in e-learning and case studies.

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The state of the world's
children. 1998

New Wave Mental Maths: Book
D

Review of Truck
Characteristics as Factors
in Roadway Design
Scientific and Technical

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Aerospace Reports
New Frontiers in Artificial
Intelligence
Building High Integrity
Applications with SPARK
Praised for its accessible tone and
extensive problem sets, this
trusted text familiarizes students

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with the universal principles of engineering economics. This essential introduction features a wealth of specific Canadian examples and has been fully updated with new coverage of inflation and environmental stewardship as well as a new

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chapter on project management.
Now in its second edition
Maritime Economics provides a
valuable introduction to the
organisation and workings of the
global shipping industry. The
author outlines the economic
theory as well as many of the

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operational practicalities involved. Extensively revised for the new edition, the book has many clear illustrations and tables. Topics covered include: *

- * an overview of international trade
- * Maritime Law
- * economic organisation and principles *

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financing ships and shipping companies * market research and forecasting.

This book constitutes the refereed proceedings of the 4th International Symposium on Ubiquitous Networking, UNet 2018, held in Hammamet,

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Morocco, in May 2018. The 35 full papers presented together with 5 short papers in this volume were carefully reviewed and selected from 87 submissions. The focus of UNet is on technical challenges and solutions related to such a widespread adoption of

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networking technologies,
including broadband multimedia,
machine-to-machine applications,
Internet of things, security and
privacy, data engineering, sensor
networks and RFID technologies.

A Statistical Portrait

An Introduction to Statistical

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Methods and Data Analysis
Climate Economics
Mathematical Knowledge
Management
Biological Data Mining

The Handbook of Unmanned

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Aerial Vehicles is a reference text for the academic and research communities, industry, manufacturers, users, practitioners, Federal Government, Federal and

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State Agencies, the private sector, as well as all organizations that are and will be using unmanned aircraft in a wide spectrum of applications. The

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Handbook covers all aspects of UAVs, from design to logistics and ethical issues. It is also targeting the young investigator, the future inventor and

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entrepreneur by
providing an overview
and detailed information
of the state-of-the-art
as well as useful new
concepts that may lead
to innovative research.

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The contents of the Handbook include material that addresses the needs and 'know how' of all of the above sectors targeting a very diverse audience. The

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Handbook offers a unique and comprehensive treatise of everything one needs to know about unmanned aircrafts, from conception to operation, from technologies to

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business activities,
users, OEMs, reference
sources, conferences,
publications,
professional societies,
etc. It should serve as
a Thesaurus, an

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indispensable part of
the library for everyone
involved in this area.
For the first time,
contributions by the
world's top experts from
academia, industry,

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government and the private sector, are brought together to provide unique perspectives on the current state-of-the-art in UAV, as well as

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future directions. The Handbook is intended for the expert/practitioner who seeks specific technical/business information, for the technically-oriented

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scientists and engineers, but also for the novice who wants to learn more about the status of UAV and UAV-related technologies. The Handbook is arranged

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in a user-friendly
format, divided into
main parts referring to:
UAV Design Principles;
UAV Fundamentals; UAV
Sensors and Sensing
Strategies; UAV

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Propulsion; UAV Control;
UAV Communication
Issues; UAV
Architectures; UAV
Health Management
Issues; UAV Modeling,
Simulation, Estimation

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and Identification; MAVs
and Bio-Inspired UAVs;
UAV Mission and Path
Planning; UAV Autonomy;
UAV Sense, Detect and
Avoid Systems; Networked
UAVs and UAV Swarms; UAV

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Integration into the
National Airspace; UAV-
Human Interfaces and
Decision Support
Systems; Human Factors
and Training; UAV
Logistics Support; UAV

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Applications; Social and
Ethical Implications;
The Future of UAVs. Each
part is written by
internationally renowned
authors who are
authorities in their

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respective fields. The contents of the Handbook supports its unique character as a thorough and comprehensive reference book directed to a diverse audience of

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technologists,
businesses, users and
potential users,
managers and decision
makers, novices and
experts, who seek a
holistic volume of

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information that is not only a technical treatise but also a source for answers to several questions on UAV manufacturers, users, major players in UAV

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research, costs,
training required and
logistics issues.

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packed full of guidance
to reinforce students'
understanding and skills
to succeed in their
course. Written by
experienced examiners
this Revision Guide is

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perfect for
international learners
and accompanies the
Cambridge International
AS and A Level Business
Coursebook (third
edition).