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This book takes an extensive look at the many different types of users and cultures that comprise the popular social media platform Tumblr. Though it does not receive nearly as much attention as other social media such as Twitter or Facebook, Tumblr and its users have been hugely influential in creating and shifting popular culture, especially progressive youth culture, with the New York Times referring to 2014 as the dawning of the “age of Tumblr activism.” Perfect for those unfamiliar with the platform as

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well as those who grew up on it, this volume contains essays and artwork that span many different topics: fandom; platform structure and design; race, gender and sexuality, including queer and trans identities; aesthetics; disability and mental health; and social media privacy and ethics. An entire generation of young people that is now beginning to influence mass culture and politics came of age on Tumblr, and this volume is an indispensable guide to the many ways this platform works.

OCCUPATIONAL THERAPY IN
the PROMOTION OF HEALTH

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and WELLNESS

Sociology of Childhood and Youth, is one of the first of its kind that provides sociological articulations on the Indian child and young, along with the accompanying multifaceted discourses on childhood and youth situating it in the historical experience of India. This volume will be welcomed as a ground-breaking effort for opening doors for critical thinking and novel works in an area which is one of the most challenging and motivating concern of contemporary India and also for our sociological imagination.

The second edition of Vis-à-vis

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continues the excitement of the innovative first edition with a fully integrated and revised multimedia package and an exciting Correspondance feature (chapter opening letter, postcard or e-mail, which is answered in the mid-lesson Correspondance cultural spread) presented throughout the text. The overall goal of the revision, which was shaped by the extensive user feedback, remains the same as that of the first edition: to promote a balanced four-skills approach to learning French through a wide variety of listening, speaking, reading, and writing activities, while introducing

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students to the richness and diversity of the Francophone world.

IRD

The Global Challenge of Marine Biotechnology

platform and cultures

Vis-à-Vis

Pi: A Source Book

19th International Conference,

TSD 2016, Brno , Czech

Republic, September 12-16,

2016, Proceedings

First International Summit,

IoT360 2014, Rome, Italy,

October 27-28, 2014, Revised

Selected Papers, Part I

This two-volume set (CCIS 915 and CCIS 916)

constitutes the refereed

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proceedings of the 5th Workshop on Engineering Applications, WEA 2018, held in Medellín, Colombia, in October 2018. The 50 revised full papers presented in this volume were carefully reviewed and selected from 126 submissions. The papers are organized in topical sections such as computer science; computational intelligence; simulation systems; software engineering; power and energy applications. Praise for the Second Edition: "The authors present an intuitive and

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*easy-to-read book. ...
accompanied by many
examples, proposed
exercises, good
references, and
comprehensive appendices
that initiate the reader
unfamiliar with MATLAB."
—Adolfo Alvarez Pinto,
International Statistical
Review "Practitioners of
EDA who use MATLAB will
want a copy of this book.
... The authors have done
a great service by
bringing together so many
EDA routines, but their
main accomplishment in
this dynamic text is
providing the*

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understanding and tools to do EDA. –David A Huckaby, MAA Reviews Exploratory Data Analysis (EDA) is an important part of the data analysis process. The methods presented in this text are ones that should be in the toolkit of every data scientist. As computational sophistication has increased and data sets have grown in size and complexity, EDA has become an even more important process for visualizing and summarizing data before making assumptions to generate hypotheses and

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models. Exploratory Data Analysis with MATLAB, Third Edition presents EDA methods from a computational perspective and uses numerous examples and applications to show how the methods are used in practice. The authors use MATLAB code, pseudo-code, and algorithm descriptions to illustrate the concepts. The MATLAB code for examples, data sets, and the EDA Toolbox are available for download on the book's website. New to the Third Edition Random projections and estimating local intrinsic

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dimensionality Deep learning autoencoders and stochastic neighbor embedding Minimum spanning tree and additional cluster validity indices Kernel density estimation Plots for visualizing data distributions, such as beanplots and violin plots A chapter on visualizing categorical data Several nano-scale devices have emerged that are capable of analysing plant diseases, nutrient deficiencies and any other ailments that may affect food security in agro-ecosystems. It has been

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envisioned that smart delivery systems can be developed and utilised for better management of agricultural ecosystems. These systems could exhibit beneficial, multi-functional characteristics, which could be used to assess and also control habitat-imposed stresses to crops. Nanoparticle-mediated smart delivery systems can control the delivery of nutrients or bioactive and/or pesticide molecules in plants. It has been suggested that nanoparticles in plants might

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help determine their nutrient status and could also be used as cures in agro-ecosystems. Further, to enhance soil and crop productivity, nanotechnology has been used to create and deliver nano fertilizers, which can be defined as nano-particles that directly help supply nutrients for plant growth and soil productivity. Nano-particles can be absorbed onto clay networks, leading to improved soil health and more efficient nutrient use by crops. Additionally, fertilizer

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particles can be coated with nano-particles that facilitate slow and steady release of nutrients, reducing loss of nutrients and enhancing their efficiency in agri-crops. Although the use of nanotechnology in agro-ecosystems is still in its early stages and needs to be developed further, nano-particle-mediated delivery systems are promising solutions for the successful management of agri-ecosystems. In this context, the book offers insights into nanotechnology in agro-

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ecosystems with reference to biogenic nanoparticles. It highlights the:

- occurrence and diversity of Biogenic Nanoparticles*
- mechanistic approach involved in the synthesis of biogenic nanoparticles*
- synthesis of nanoparticles using photo-activation, and their fate in the soil ecosystem*
- potential applications of nanoparticles in agricultural systems*
- application and biogenic synthesis of gold nanoparticles and their characterization*
- impact of biogenic nanoparticles*

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on biotic stress to plants

- mechanistic approaches involved in the antimicrobial effects and cytotoxicity of biogenic nanoparticles*
- role of biogenic nanoparticles in plant diseases management*
- relevance of biological synthesized nanoparticles in the longevity of agricultural crops*
- design and synthesis of nano-biosensors for monitoring pollutants in water, soil and plant systems*
- applications of nanotechnology in agriculture with special refer to soil, water and*

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plant sciences A useful resource for postgraduate and research students in the field of plant and agricultural sciences, it is also of interest to researchers working in nano and biotechnology. Paleo workouts that are heavy on results--and low on equipment investment Paleo Workouts For Dummies offers a program of back-to-the-Stone-Age exercises with specially designed workouts that burn fat, fight disease, and increase energy. The paleo workouts found in this step-by-step guide,

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promote sound activities with a strong emphasis on practicing and mastering fundamental/primitive human movements such as squats, hinges, pushes/pulls, sprints, crawls, and more. Paleo Workouts For Dummies caters to the anti-gym crowd who want a convenient program that can be used anywhere, anytime. In addition, vital details on healthy Paleolithic foods that maximize energy levels for the intense workout routines are covered. Companion workout videos

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can be accessed, for free, at Dummies.com The video content aids you in mastering paleo moves and techniques covered in the book Offers a complete cardiovascular and strength workout By focusing on the primal movements that humans evolved to perform, *Paleo Workouts For Dummies* is for anyone following a paleo diet routine as well as those curious about how to maximize their paleo workouts.

SEAFLOOR OBSERVATORIES
Zurich, Berlin, Hannover,
Cologne, New York, Paris

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*Key Directions in Legal
Education*

*Detection of Intrusions
and Malware, and
Vulnerability Assessment*

*A Status Report on the
United States, Japan,
Australia, and Norway*

*New Approaches for
Security, Privacy and
Trust in Complex
Environments*

*Risk and Uncertainty in
Ecology, Curriculum,
Learning, and Technology*

***"In the past fifteen years, file
sharing of digital cultural
works between individuals has
been at the center of a number
of debates on the future of***

culture itself. To some, sharing constitutes piracy, to be fought against and eradicated. Others see it as unavoidable, and table proposals to compensate for its harmful effects. Meanwhile, little progress has been made towards addressing the real challenges facing culture in a digital world. Sharing starts from a radically different viewpoint, namely that the non-market sharing of digital works is both legitimate and useful. It supports this premise with empirical research, demonstrating that non-market sharing leads to more diversity in the attention

given to various works. Taking stock of what we have learned about the cultural economy in recent years, Sharing sets out the conditions necessary for valuable cultural functions to remain sustainable in this context."--[P] 4 of cover.

In 1966 Congress passed the National Sea Grant College Program Act to promote marine research, education, and extension services in institutions along the nation's ocean and Great Lakes coasts. In Maryland a Sea Grant Program -- a partnership among federal and state governments, universities, and industries -- began in 1977,

and in 1982 the University of Maryland was named the nation's seventeenth Sea Grant College. The Maryland Sea Grant College focuses its efforts on the Chesapeake Bay, with emphasis on the marine concerns of fisheries, seafood technology, and environmental quality. This report addresses the emerging science and developing technologies encompassed by marine biotechnology. It contains a broad overview of marine biotechnology, sets forth industrial realities, and assesses the future potential of this new field of biotechnology. The report has

eight chapters. The first contains a wide range of major scientific achievements in marine biotechnology. The subjects encompassed within marine biotechnology are grouped within six areas: aquaculture, marine animal health, marine natural health, marine natural products, biofilm and bioadhesion in the marine environment, bioremediation, and marine ecology and biological oceanography. The remaining chapters detail an extensive survey and status report on marine biotechnology in the United States, Japan, Australia, and Norway.

This volume examines the challenges weighing on the future of education in the face of globalization in the twenty-first century. Bringing together eleven authors who explore the paradox of an “after” to the future of education, each chapter in this book targets three important areas: ecology as understood in the broader framework of globalization and pedagogy; curriculum concerns which impact learning; and the pervasiveness of technology in education today.

This volume provides an understanding of the technology and clinical uses of

three-dimensional ultrasound. The aim of the text is to assist radiologists in asking the right questions in choosing the ultrasound equipment to buy for their hospitals. The authors explain volume imaging and volume sonography technology and current information on acquisition and display methods, visualization, and quantitative analysis. The advantages of different types of acquisition and display are discussed to assist radiologists in comparing different types of equipment. Basic Science and Clinical Practice Proceedings of the IFIP TC 11

**22nd International Information
Security Conference (SEC
2007), 14-16 May 2007,
Sandton, South Africa
A Critical Global Assessment of
Atomic Energy
Greek Texts and Armenian
Traditions
Proceedings of the First
International Conference on
SCI 2016, Volume 1
Critical Information
Infrastructures Security
National and International
Perspectives**

An interdisciplinary approach,
crucial as it is in most fields of
research, proves itself to be
unescapable in the study of
interactions between the ancient

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Armenian and Greek worlds and literatures. The volume arises from such an awareness and collects papers presented in a conference which has been organized in 2013 at the University of Genova, thanks to a cooperation with the Université Paris-Sorbonne, following in the footsteps of a tradition inaugurated by Giancarlo Bolognesi in the years '80 and '90. The subject is explored from many points of view: the topic of Armenian translations of Greek texts – with considerations of a methodological nature and the discussion of case-studies –, aspects which pertain to the historical context and the historiographical sources, the wide

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theme of the Armenian reception of Biblical, Christian and Byzantine literature, and finally philological, linguistic and lexical problems. The aim of this kind of research is to exploit the cooperation among classical philologists, linguists and Armenologists, in order to face the challenge of investigating a subject which requires many different competences.

Charles W. Smith's provocative book, *Market Values in American Higher Education* argues that current financial problems in higher education are not tied to such things as tenure, sabbaticals, overemphasis on research, and curriculum changes. Rather, they are due to counterproductive and

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expensive efforts to impose hierarchical corporate managerial structures, slash and burn cost reduction schemes, and costly pursuits of phantom revenue sources—be they highly visible new programs, grants, or even gifts that actually need to be subsidized by the institution. This authoritative, all-in-one introduction, manual, and complete reference shows readers

- at all levels of technical expertise
- how to use Kermit to transfer diverse data between different computer systems and data communications environments.

Using tutorials, case studies, and examples of actual Kermit codes, it provides instructions for basic

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use and a detailed description of the Kermit protocols: * File management through protocols * Command referencing and extended features *

Telecommunications protocols Dada includes many of the key figures in the history of modernism, such as Hans Arp, Marcel Duchamp, Max Ernst, Hannah Hoch, John Heartfield, Francis Picabia, Kurt Schwitters, and Sophie Taeuber, and introduces artists who are less well known. This book explores the variety of art-making practices that emerged between 1916 and 1924 in the movement's primary centers: Zurich, Berlin, Hannover, Cologne, New York, and Paris. Six

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city essays by scholars of the movement; an illustrated chronology; more than forty artists' biographies; period photographs; and extensive plate sections document a provocative and influential artistic era. This illustrated book accompanies Dada, the most comprehensive museum exhibition of Dada art ever mounted in the United States, on view in 2006 at the National Gallery of Art, Washington, and The Museum of Modern Art, New York. The exhibition was on view at the Musee national d'art moderne-Centre Pompidou in Paris in 2005.

Kermit

Three-dimensional Ultrasound

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Six Sigma and Other Next-
generation Techniques
Undergraduate Research and the
Academic Librarian
Open Development
Thyroid Disorders

Text, Speech, and Dialogue

**The two-volume set
LNICST 150 and 151
constitutes the
thoroughly refereed post-
conference proceedings
of the First International
Internet of Things
Summit, IoT360 2014,
held in Rome, Italy, in
October 2014. This
volume contains 74 full
papers carefully reviewed**

and selected from 118 submissions at the following four conferences: the First International Conference on Cognitive Internet of Things Technologies, COIOTE 2014; the First International Conference on Pervasive Games, PERGAMES 2014; the First International Conference on IoT Technologies for HealthCare, HealthyIoT 2014; and the First International Conference on IoT as a Service, IoTaaS 2014. The papers

cover the following topics: user-centric IoT; artificial intelligence techniques for the IoT; the design and deployment of pervasive games for various sectors, such as health and wellbeing, ambient assisted living, smart cities and societies, education, cultural heritage, and tourism; delivery of electronic healthcare; patient care and medical data management; smart objects; networking considerations for IoT;

**platforms for IoTaaS;
adapting to the IoT
environment; modeling
IoTaaS; machine to
machine support in IoT.
'Karplus's tales of a
turbulent graduate school
experience at Caltech will
inspire readers to muster
fortitude when everything
seems to be spinning out
of control. Karplus
balances rigorous
scientific discussions with
refreshing chapters
expounding his passion
for photography and
gastronomy.'Nature
Chemistry, May**

2020 Nobel Laureate Martin Karplus was eight when his family fled Nazi-occupied Austria via Switzerland and France for the United States. He would later credit his life as a refugee as a decisive influence on his world view and approach to science. Spinach on the Ceiling is an autobiographical telling of Karplus' life story, and how it led him to win the Nobel Prize in Chemistry in 2013. The book captures pivotal moments in Martin's life — from his

escape to Switzerland in 1938 shortly after Hitler's entrance into Austria; to memorable moments like when his parents gave him a microscope which opened his eyes to the wonders of science; to his education in New England and California; and his eventual scientific career which took him to England, Illinois, Columbia, Strasbourg, and Harvard. It relates how Martin's optimistic outlook and belief in his vision made it possible for him to overcome

setbacks in his life, and turn a subject of study his colleagues considered a waste of time into a central part of chemistry and structural biology. It is his hope to inspire and aid young readers, in particular, to have a successful trajectory in their own lives. Although research and teaching have been his primary focus, he has traveled the world photographing people and places with a Leica IIIC and has had numerous exhibitions of the photographs. He has

also enjoyed a lifelong interest in cooking and worked in some of the best restaurants in France and Spain. Gender Differences at Critical Transitions in the Careers of Science, Engineering, and Mathematics Faculty presents new and surprising findings about career differences between female and male full-time, tenure-track, and tenured faculty in science, engineering, and mathematics at the nation's top research

universities. Much of this congressionally mandated book is based on two unique surveys of faculty and departments at major U.S. research universities in six fields: biology, chemistry, civil engineering, electrical engineering, mathematics, and physics. A departmental survey collected information on departmental policies, recent tenure and promotion cases, and recent hires in almost 500 departments. A

faculty survey gathered information from a stratified, random sample of about 1,800 faculty on demographic characteristics, employment experiences, the allocation of institutional resources such as laboratory space, professional activities, and scholarly productivity. This book paints a timely picture of the status of female faculty at top universities, clarifies whether male and female faculty have similar opportunities to

advance and succeed in academia, challenges some commonly held views, and poses several questions still in need of answers. This book will be of special interest to university administrators and faculty, graduate students, policy makers, professional and academic societies, federal funding agencies, and others concerned with the vitality of the U.S. research base and economy. This book is the first to focus specifically on

cancer nanotheranostics. Each of the chapters that make up this comprehensive volume is authored by a researcher, clinician, or regulatory agency member known for their expertise in this field. Theranostics, the technology to simultaneously diagnose and treat a disease, is a nascent field that is growing rapidly in this era of personalized medicine. As the need for cost-effective disease diagnosis grows, drug delivery systems that can

act as multifunctional carriers for imaging contrast and therapy agents could provide unique breakthroughs in oncology.

Nanotechnology has enabled the development of smart theranostic platforms that can concurrently diagnose disease, start primary treatment, monitor response and initiate secondary treatments if required. In oncology, chemotherapeutics have been routinely used. Some drugs have proven

effective but all carry risks of adverse side effects. There is growing interest in using remotely triggered drug delivery systems to limit cytotoxicity in the diseased area. This book reviews the use of theranostic nanoparticles for cancer applications over the past decade. First, it briefly discusses the challenges and limitations of conventional cancer treatments, and presents an overview of the use of nanotechnology in

treating cancer. These introductory chapters are followed by those exploring cancer diagnosis and a myriad of delivery methods for nanotherapeutics. The book also addresses multifunctional platforms, treatment monitoring, and regulatory considerations. As a whole, the book aims to briefly summarize the development and clinical potential of various nanotheranostics for cancer applications, and

to delineate the challenges that must be overcome for successful clinical development and implementation of such cancer theranostics.

Market Values in American Higher Education

Sharing

COVID-19 and Higher Education in the Global Context

11th International Conference, CRITIS 2016, Paris, France, October 10-12, 2016, Revised Selected Papers

Cell Biological

Applications of Confocal Microscopy

The Precarious Future of Education

Case Studies and Best Practices

Rates of childhood obesity are alarmingly high and increasing each year. Studies have shown that obese children are more likely to become obese adults and are likely to suffer with numerous health consequences like coronary heart disease, high blood pressure, and Type II diabetes, among others. Studies also indicate that television viewing and exposure to advertising for food products influences children's attitudes toward, food preferences and food purchase

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requests for foods with low nutritional value. It is important to better understand the role of media in childhood obesity and to learn how media may be used to address this issue in a positive way. This book focuses on communication and media research that can have an impact on reducing childhood obesity. Emphasis is placed on topics related to how the media communicate health-related messages about food, nutrition and diet that influence childhood obesity. Particular emphasis is on the new media, given the fact that media now have more central roles in socializing today's children and youth than ever before. Advertising and marketing messages reach

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young consumers through a variety of vehicles – broadcast and cable television, radio, magazines, computers through the Internet, music, cell phones – and in many different venues – homes, schools, child-care settings, grocery stores, shopping malls, theaters, sporting events, and even airports. In addition, given the disparity in obesity rates between children of color and the general population, special attention is given to research on media targeting these populations.

"Undergraduate research is often conflated with standard end-of-semester research papers, featuring APA style bibliographies and a certain number of sources.

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But in fact, undergraduate research is one of several high-impact educational practices identified by George Kuh and the Association of American Colleges & Universities, and is increasingly seen as a vital part of the undergraduate experience. Research helps students connect the dots between their interests, general education courses, writing requirements, and major coursework, and increases learning, retention, enrollment in graduate education, and engagement in future work. In 25 chapters featuring 60 expert contributors, *Undergraduate Research and the Academic Librarian* examines how the structures that undergird

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undergraduate research, such as the library, can become part of the core infrastructure of the undergraduate experience. It explores the strategic new services and cross-departmental collaborations academic libraries are creating to support research: publishing services, such as institutional repositories and undergraduate research journals; data services; copyright services; poster printing and design; specialized space; digital scholarship services; awards; and much more. These programs can be from any discipline, can be interdisciplinary, can be any high-impact format, and can reflect upon an institution's own history,

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traditions, and tensions. As higher education becomes more competitive--for dollars, for students, for grant money, for resources in general--institutions will need to increase their development of programs that provide the experiential and deep learning, and increased engagement, that research provides. The scholarly and extracurricular experiences of college are increasingly becoming a major part of marketing college education. Beyond the one-shot, beyond course-integrated instruction, Undergraduate Research and the Academic Librarian is a detailed guide to how librarians can help students go

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beyond a foundation of information literacy toward advanced research and information management skills"--provided by publisher.

This book constitutes the proceedings of the 16th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2019, held in Gothenburg, Sweden, in June 2019. The 23 full papers presented in this volume were carefully reviewed and selected from 80 submissions. The contributions were organized in topical sections named: wild wild web; cyber-physical systems; malware; software security and binary analysis; network security; and

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attack mitigation.

Our intention in this collection is to provide, largely through original writings, an extended account of pi from the dawn of mathematical time to the present. The story of pi reflects the most seminal, the most serious, and sometimes the most whimsical aspects of mathematics.

A surprising amount of the most important mathematics and a significant number of the most important mathematicians have contributed to its unfolding directly or otherwise.

Pi is one of the few mathematical concepts whose mention evokes a response of recognition and interest in those not concerned professionally with the subject. It has been a part of human culture

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and the educated imagination for more than twenty-five hundred years. The computation of pi is virtually the only topic from the most ancient stratum of mathematics that is still of serious interest to modern mathematical research. To pursue this topic as it developed throughout the millennia is to follow a thread through the history of mathematics that winds through geometry, analysis and special functions, numerical analysis, algebra, and number theory. It offers a subject that provides mathematicians with examples of many current mathematical techniques as well as a palpable sense of their historical development. Why a Source Book?

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Few books serve wider potential audiences than does a source book. To our knowledge, there is at present no easy access to the bulk of the material we have collected.

Biogenic Nano-Particles and their Use in Agro-ecosystems

An Interdisciplinary Approach

Sociology of Childhood and Youth

Social Media in Employee Selection and Recruitment

The Absolute, Ultimate Guide to

Lehninger Principles of Biochemistry

Culture and the Economy in the Internet Age

Gender Differences at Critical Transitions in the Careers of Science, Engineering, and Mathematics Faculty

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This timely resource offers fresh research on companies' use of social media platforms—from Twitter and Facebook to LinkedIn and other career sites—to find and hire personnel. Its balanced approach explains why and how social media are commonly used in both employee recruitment and selection, exploring relevant theoretical constructs and practical considerations about their appropriateness and validity. Contributors clarify a confusing cyberscape with recommendations and best practices, legal and ethical issues, pitfalls and problems, and possibilities for standardization. And the book's

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insights on emerging and anticipated developments will keep the reader abreast of the field as it evolves. Included in the coverage:

- Social media as a personnel selection and hiring resource: Reservations and recommendations.
- Game-thinking within social media to recruit and select job candidates.
- Social media, big data, and employment decisions.
- The use of social media by BRIC nations during the selection process.
- Legal concerns when considering social media data in selection.
- Online exclusion: Biases that may arise when using social media in talent acquisition.
- Is John Smith really

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John Smith? Misrepresentations and misattributions of candidates using social media and social networking sites. Social Media in Employee Selection and Recruitment is a bedrock reference for industrial/organizational psychology and human resources academics currently or planning to conduct research in this area, as well as for academic libraries. Practitioners considering consulting social media as part of human resource planning or selection system design will find it a straight-talking guide to staying competitive. This volume contains 74 papers

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presented at SCI 2016: First International Conference on Smart Computing and Informatics. The conference was held during 3-4 March 2017, Visakhapatnam, India and organized communally by ANITS, Visakhapatnam and supported technically by CSI Division V – Education and Research and PRF, Vizag. This volume contains papers mainly focused on applications of advanced intelligent techniques to video processing, medical imaging, machine learning, sensor technologies, and network security.

This book constitutes the refereed proceedings of the 19th

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International Conference on Text, Speech, and Dialogue, TSD 2016, held in Brno, CzechRepublic, in September 2016. The 62 papers presented together with 3 abstracts of invited talks were carefully reviewed and selected from 127 submissions. They focus on topics such as corpora and language resources; speech recognition; tagging, classification and parsing of text and speech; speech and spoken language generation; semantic processing of text and speech; integrating applications of text and speech processing; automatic dialogue systems; as well as multimodal techniques and modelling.

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This volume of the acclaimed Methods in Cell Biology series provides specific examples of applications of confocal microscopy to cell biological problems. It is an essential guide for students and scientists in cell biology, neuroscience, and many other areas of biological and biomedical research, as well as research directors and technical staff of microscopy and imaging facilities. An integrated and up-to-date coverage on the many various techniques and uses of the confocal microscope (CM). Includes detailed protocols accessible to new users Details how to set up and run a "Confocal Microscope Core

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Facility" Contains over 170
figures

A New Vision of the Earth from
the Abyss

Exploratory Data Analysis with
MATLAB

Hybrid Neural Systems

16th International Conference,
DIMVA 2019, Gothenburg,
Sweden, June 19–20, 2019,
Proceedings

Theory, Practice, and Current
Challenges

The Pitfalls and Promises
a tumblr book

Key Directions in Legal Education
identifies and explores key
contemporary and emerging themes
that are significant and heavily
debated within legal education from
both UK and international

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perspectives. It provides a rich comparative dialogue and insights into the current and future directions of legal education. The book discusses in detail topics like the pressures on law schools exerted by external stakeholders, the fostering of interdisciplinary approaches and collaboration within legal education and the evolution of discourses around teaching and learning legal skills. It elaborates on the continuing development of clinical legal education as a component of the law degree and the emergence and use of innovative technologies within law teaching. The approach of pairing UK and international authors to obtain comparative insights and analysis on a range of key themes is original and provides both a genuine comparative dialogue and a clear international

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focus. This book will be of great interest for researchers, academics and post-graduate students in the field of law and legal pedagogy.

The oceans cover 70% of the terrestrial surface, and exert a pervasive influence on the Earth's environment but their nature is poorly recognized. Knowing the ocean's role deeply and understanding the complex, physical, biological, chemical and geological systems operating within it represent a major challenge to scientists today. Seafloor observatories offer scientists new opportunities to study multiple, interrelated natural phenomena over time scales ranging from seconds to decades, from episodic to global and long-term processes. Seafloor Observatories poses the important and apparently simple question, "How can

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continuous and reliable monitoring at the seafloor by means of Seafloor Observatories extend exploration and improve knowledge of our planet?"

The book leads the reader through: the present scientific challenges to be addressed with seafloor observatories the technical solutions for their architecture an excursus on worldwide ongoing projects and programmes some relevant scientific multidisciplinary results and a presentation of new and interesting long-term perspectives for the coming years. Current results will yield significant improvements and exert a strong impact not only on our present knowledge of our planet but also on human evolution.

This book constitutes the post-conference proceedings of the 11th International Conference on Critical

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Information Infrastructures Security, CRITIS 2016, held in Paris, France, in October 2016. The 22 full papers and 8 short papers presented were carefully reviewed and selected from 58 submissions. They present the most recent innovations, trends, results, experiences and concerns in selected perspectives of critical information infrastructure protection covering the range from small-scale cyber-physical systems security via information infrastructures and their interaction with national and international infrastructures. Hybrid neural systems are computational systems which are based mainly on artificial neural networks and allow for symbolic interpretation or interaction with symbolic components. This book is derived from a workshop held during

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the NIPS'98 in Denver, Colorado, USA, and competently reflects the state of the art of research and development in hybrid neural systems. The 26 revised full papers presented together with an introductory overview by the volume editors have been through a twofold process of careful reviewing and revision. The papers are organized in the following topical sections: structured connectionism and rule representation; distributed neural architectures and language processing; transformation and explanation; robotics, vision, and cognitive approaches.

Inside Solid State Drives (SSDs)
5th Workshop on Engineering
Applications, WEA 2018, Medellín,
Colombia, October 17-19, 2018,
Proceedings, Part I
Study Guide and Solutions Manual

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Beginning French

A File Transfer Protocol

Risk Management in Finance

Spinach On The Ceiling: The
Multifaceted Life Of A Theoretical
Chemist

Solid State Drives (SSDs) are gaining momentum in enterprise and client applications, replacing Hard Disk Drives (HDDs) by offering higher performance and lower power. In the enterprise, developers of data center server and storage systems have seen CPU performance growing exponentially for the past two decades, while HDD performance has improved linearly for the same period. Additionally, multi-

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core CPU designs and virtualization have increased randomness of storage I/Os. These trends have shifted performance bottlenecks to enterprise storage systems. Business critical applications such as online transaction processing, financial data processing and database mining are increasingly limited by storage performance. In client applications, small mobile platforms are leaving little room for batteries while demanding long life out of them. Therefore, reducing both idle and active power consumption has become critical. Additionally, client storage systems are in need of

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significant performance improvement as well as supporting small robust form factors. Ultimately, client systems are optimizing for best performance/power ratio as well as performance/cost ratio. SSDs promise to address both enterprise and client storage requirements by drastically improving performance while at the same time reducing power. Inside Solid State Drives walks the reader through all the main topics related to SSDs: from NAND Flash to memory controller (hardware and software), from I/O interfaces (PCIe/SAS/SATA) to reliability, from error

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correction codes (BCH and LDPC) to encryption, from Flash signal processing to hybrid storage. We hope you enjoy this tour inside Solid State Drives. Experts explore current theory and practice in the application of digitally enabled open networked social models to international development. The emergence of open networked models made possible by digital technology has the potential to transform international development. Open network structures allow people to come together to share information, organize, and collaborate. Open development harnesses this power, to create

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new organizational forms and improve people's lives; it is not only an agenda for research and practice but also a statement about how to approach international development. In this volume, experts explore a variety of applications of openness, addressing challenges as well as opportunities. Open development requires new theoretical tools that focus on real world problems, consider a variety of solutions, and recognize the complexity of local contexts. After exploring the new theoretical terrain, the book describes a range of cases in which open models address such specific development issues as

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biotechnology research, improving education, and access to scholarly publications. Contributors then examine tensions between open models and existing structures, including struggles over privacy, intellectual property, and implementation. Finally, contributors offer broader conceptual perspectives, considering processes of social construction, knowledge management, and the role of individual intent in the development and outcomes of social models. Contributors Carla Bonina, Ineke Buskens, Leslie Chan, Abdallah Daar, Jeremy de Beer, Mark Graham, Eve Gray,

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International Development
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This book provides
comprehensive knowledge about
thyroid gland and highlights the
recent trends in the management
of thyroid dysfunctions. Thyroid
disorders are amongst the most
prevalent of medical conditions

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possibly after diabetes. The prevalence of thyroid dysfunction in adults in the general population ranges from 1 to 10 percent, and is even higher in selected groups. In the United Kingdom, 1–2% of the adult population is found to have thyroid dysfunction. It is interesting to note that thyroxin is the sixth most commonly dispensed drug in Scotland. Virtually all studies report higher prevalence rates for hypothyroidism in women and with advancing age. Abnormal thyroid functions have important public health consequences. Suppressed TSH levels have been associated with decreased bone

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density and with an increased risk of atrial fibrillation and premature atrial beat. It has been known for decades that overt hypothyroidism contributes to elevated serum cholesterol levels and cardiovascular risk and recent studies suggest this may also be true with subclinical hypothyroidism?.

The current IT environment deals with novel, complex approaches such as information privacy, trust, digital forensics, management, and human aspects. This volume includes papers offering research contributions that focus both on access control in complex environments as well as other

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aspects of computer security and privacy.

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