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## **Irishness and Womanhood in Nineteenth-century British Writing**

Thomas J. Tracy 2009 Using Lady Morgan's *The Wild Irish Girl* as his point of departure, Thomas J. Tracy argues that nineteenth-century debates over what constitutes British national identity often revolved around representations of Irishness, especially Irish womanhood. He maps the genealogy of this development in fiction, political discourse, and the popular press, from Edgeworth's *Castle Rackrent* through Trollope's Irish novels, focusing on the pivotal period from 1806 through the 1870s.

*Functional Data Analysis with R and MATLAB*

James Ramsay 2009-06-29 The book provides an application-oriented overview of functional analysis, with extended and accessible presentations of key concepts such as spline basis functions, data smoothing, curve registration, functional linear models and dynamic systems Functional data analysis is put to work in a wide a range of applications, so that new problems are likely to find close analogues in this book The code in R and Matlab in the book has been designed to permit easy modification to adapt to new data structures and research problems

*The History and Geography of Human Genes*  
Luigi Luca Cavalli-Sforza 2018-06-05 Hailed as a breakthrough in the understanding of human evolution, *The History and*

*Geography of Human Genes* offers the first full-scale reconstruction of where human populations originated and the paths by which they spread throughout the world. By mapping the worldwide geographic distribution of genes for over 110 traits in over 1800 primarily aboriginal populations, the authors charted migrations and devised a clock by which to date evolutionary history. This monumental work is now available in a more affordable paperback edition without the myriad illustrations and maps, but containing the full text and partial appendices of the authors' pathbreaking endeavor.

**Democratization of Expertise** Ron Fulbright 2020-10-27 We create technology enabling us to do things never before possible and it ultimately changes the way we live, work, play, and interact with each other. Throughout human history, the democratization of technology making a technology available to the masses, has brought about sweeping cultural, social, political, and societal changes. In the last half-century, the democratization of computers, information, the Internet, and social media have revolutionized and transformed our lives. We now stand at the beginning of a new era sure to bring about waves of new revolutions, the cognitive systems era. Until now, humans have done all of the thinking. However, our lives are about to be infused with artificial entities

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capable of performing high-level cognitive processing previously possible only in the human mind. Systems capable of this kind of "synthetic cognition" will achieve and surpass the level of human experts in almost every field of endeavor. Far from replacing humans, these cognitive systems will be our collaborators, teachers, confidants, colleagues, and companions. The future will belong to those who can better partner with these cognitive systems. Made available to the average person via the Internet, handheld devices, and through ordinary objects all around us, expertise will become democratized. Everything will change when anyone has access to expertise in any field and new things will be possible. The democratization of expertise is the foundation on which our society's revolutions will be built over the next half-century. This book discusses societal and cultural revolutions throughout history brought about by the adoption of new technology and gives brief histories of human cognitive augmentation and artificial intelligence. In the coming cognitive systems era, humans, by collaboratively partnering with cognitive systems, will together achieve expert-level performance—synthetic expertise—with humans performing some of the cognitive processing and cognitive systems performing some. As the capabilities of cognitive systems improve over time, the balance of thinking will shift from being mostly human to mostly artificial. This book introduces the Levels of Cognitive Augmentation to describe this shift. Drawing from previous research in cognitive systems and intelligent agent theory, the knowledge stores required for expertise are identified in a Knowledge Level description of expertise. This book introduces a new abstract level, called the Expertise Level to describe the skills needed for expertise. Combining the knowledge-level and expertise-level descriptions, this book introduces the Model of Expertise. This book demonstrates use of the Model of Expertise by presenting several synthetic expert architectures: a synthetic teacher (Synthia), a synthetic

friend/therapist (Sy), a synthetic elderly companion (Lois), a synthetic research companion (Synclair), and an automated scientific hypothesis explorer (Ashe). This book is intended for anyone interested in the fields of cognitive systems, cognitive computing, cognitive augmentation, or artificial intelligence or the impact of technologies from these fields on society. Anyone doing research and development in the area of cognitive systems or artificial intelligence will find this book particularly useful.

*Environmental Conservation, Clean Water, Air & Soil (CleanWAS)* Muhammad Aqeel Ashraf 2017-02-15 As we embark into the 21st century, we need to address new challenges ranging from population growth, climate change, and depletion of natural resources to providing better health care, food security and peace to humankind, while at the same time protecting natural ecosystems that provide the services which allow life to flourish on Earth. To meet those challenges, profound changes are required in the way that societies conduct their everyday affairs, ways that will lead to better preservation, protection and sustainable management of natural resources with long lasting impacts. The aim of CleanWAS 2016 is to provide productive opportunities for academics and practitioners from interdisciplinary fields of Environmental Sciences to meet, share and bring expertise and ideas in related disciplines. The CleanWAS conference was first organized in the year 2012. It is an annual event organised by the International Water, Air and Soil Conservation society (INWASCON) and is supported by various Malaysian (UKM, UMS, UIAM) and Chinese universities (CUG, NKU, SYSU).

**Keeping the Wild** George Wuertner 2014-05-06 Is it time to embrace the so-called "Anthropocene"—the age of human dominion—and to abandon tried-and-true conservation tools such as parks and wilderness areas? Is the future of Earth to be fully domesticated, an engineered global garden managed by technocrats to serve humanity? The schism between advocates

of rewilding and those who accept and even celebrate a “post-wild” world is arguably the hottest intellectual battle in contemporary conservation. In *Keeping the Wild*, a group of prominent scientists, writers, and conservation activists responds to the Anthropocene-boosters who claim that wild nature is no more (or in any case not much worth caring about), that human-caused extinction is acceptable, and that “novel ecosystems” are an adequate replacement for natural landscapes. With rhetorical fists swinging, the book’s contributors argue that these “new environmentalists” embody the hubris of the managerial mindset and offer a conservation strategy that will fail to protect life in all its buzzing, blossoming diversity. With essays from Eileen Crist, David Ehrenfeld, Dave Foreman, Lisi Krall, Harvey Locke, Curt Meine, Kathleen Dean Moore, Michael Soulé, Terry Tempest Williams and other leading thinkers, *Keeping the Wild* provides an introduction to this important debate, a critique of the Anthropocene boosters’ attack on traditional conservation, and unapologetic advocacy for wild nature.

[Life Cycle Impact Assessment](#) Michael Z. Hauschild 2015-03-24 This book offers a detailed presentation of the principles and practice of life cycle impact assessment. As a volume of the LCA compendium, the book is structured according to the LCIA framework developed by the International Organisation for Standardisation (ISO) passing through the phases of definition or selection of impact categories, category indicators and characterisation models (Classification); calculation of category indicator results (Characterisation); calculating the magnitude of category indicator results relative to reference information (Normalisation); and converting indicator results of different impact categories by using numerical factors based on value-choices (Weighting). Chapter one offers a historical overview of the development of life cycle impact assessment and presents the boundary conditions and the general principles and constraints of characterisation modelling in LCA. The second chapter outlines the

considerations underlying the selection of impact categories and the classification or assignment of inventory flows into these categories. Chapters three through thirteen explore all the impact categories that are commonly included in LCIA, discussing the characteristics of each followed by a review of midpoint and endpoint characterisation methods, metrics, uncertainties and new developments, and a discussion of research needs. Chapter-length treatment is accorded to Climate Change; Stratospheric Ozone Depletion; Human Toxicity; Particulate Matter Formation; Photochemical Ozone Formation; Ecotoxicity; Acidification; Eutrophication; Land Use; Water Use; and Abiotic Resource Use. The final two chapters map out the optional LCIA steps of Normalisation and Weighting.

### **Methods in Plant Molecular Biology and Biotechnology**

Bernard R. Glick 2018-05-04 *Methods in Plant Molecular Biology and Biotechnology* emphasizes a variety of well-tested methods in plant molecular biology and biotechnology. For each detailed and tested protocol presented, a brief overview of the methodology is provided. This overview considers why the protocol is used, what other comparable methods are available, and what limitations can be expected with the protocol. Other chapters in the book present overviews regarding how to approach particular problems and introduce unique methods - such as how to use computer methodology to study isolated genes. The book will be a practical reference for plant physiologists, plant molecular biologists, phytopathologists, and microbiologists.

### **Intelligent Information and Database Systems**

Ngoc Thanh Nguyen 2020-03-03 The two-volume set LNAI 12033 and 11034 constitutes the refereed proceedings of the 12th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2020, held in Phuket, Thailand, in March 2020. The total of 105 full papers accepted for publication in these proceedings were carefully reviewed and selected from 285 submissions. The papers of the first volume

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are organized in the following topical sections: Knowledge Engineering and Semantic Web, Natural Language Processing, Decision Support and Control Systems, Computer Vision Techniques, Machine Learning and Data Mining, Deep Learning Models, Advanced Data Mining Techniques and Applications, Multiple Model Approach to Machine Learning. The papers of the second volume are divided into these topical sections: Application of Intelligent Methods to Constrained Problems, Automated Reasoning with Applications in Intelligent Systems, Current Trends in Artificial Intelligence, Optimization, Learning, and Decision-Making in Bioinformatics and Bioengineering, Computer Vision and Intelligent Systems, Data Modelling and Processing for Industry 4.0, Intelligent Applications of Internet of Things and Data Analysis Technologies, Intelligent and Contextual Systems, Intelligent Systems and Algorithms in Information Sciences, Intelligent Supply Chains and e-Commerce, Privacy, Security and Trust in Artificial Intelligence, Interactive Analysis of Image, Video and Motion Data in Life Sciences.

**Text, Speech and Dialogue** Petr Sojka

2012-08-08 This book constitutes the refereed proceedings of the 15th International Conference on Text, Speech and Dialogue, TSD 2012, held in Brno, Czech Republic, in September 2012. The 82 papers presented together with 2 invited talks were carefully reviewed and selected from 173 submissions. The papers are organized in topical sections on 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, machine translation, automatic dialogue systems, multimodal techniques and modeling.

**Intercultural Competence** Myron W.

Lustig 2013-03-18 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Intercultural Competence

provides students with the tools to succeed in today's intercultural world. Blending both the practical and theoretical, this text offers students the requisite knowledge, the appropriate motivations, and the relevant skills to function competently with culturally-different others. The text provides a discussion of important ethical and social issues relating to intercultural communication and encourages students to apply vivid examples that will prepare them to interact better in intercultural relationships. Learning Goals Upon completing this book, readers will be able to: Appreciate the impact of cultural patterns on intercultural communication Use both practical and theoretical ideas to understand intercultural communication competence Understand some of the central contexts - in health, education, business, and tourism - in which intercultural communication occurs Discuss cultural identity and the role of cultural biases Note: MySearchLab with eText does not come automatically packaged with this text. To purchase MySearchLab, please visit: [www.mysearchlab.com](http://www.mysearchlab.com) or you can purchase a valuepack of the text + MySearchLab (at no additional cost): ValuePack ISBN-10: 0205912044 / ValuePack ISBN-13: 9780205912049

**Microbiological Advancements for Higher Altitude Agro-Ecosystems & Sustainability** Reeta Goel 2020-03-13

The book explores the challenges and opportunities associated with high-altitude agro-ecosystems and the factors that influence them. It discusses the various indigenous agricultural practices and approaches, as well as the microbiology of mountain & hill agro-ecosystems, providing a comprehensive overview of the various factors that control the microbiome at high altitudes. The contributions examine microbiological advances, such as use of "omics" technologies for hill agriculture and environmental sustainability, and explore the use of nanotechnology for agricultural and environmental sustainability at higher altitudes. The book also describes various aspects of low-temperature microbiology in

the context of high-altitude farming and environmental sustainability.

**Batman (2016-) #44** Tom King 2018-04-04  
ÖSOMETHING BLUEÓ! Follow Batman and Catwoman on two separate but parallel paths as their wedding planning kicks into high gear. Selina picks out her dress, and Bruce starts to make arrangements for their new life togetherÑbut this being Gotham City, and they being Batman and Catwoman, you can bet that nothing will go as expected!

Poverty Bent Greve 2019-10-11 Poverty has dire consequences on the ability to fulfil one’s aspirations for life. Poverty has strong implications for social cohesion and societies’ abilities to function in harmonious ways. This book presents the readers with the core concepts, latest development and knowledge about policies that work to eliminate absolute poverty. This volume shows what the consequences are for the quality of life of those living in poverty. It describes life for people in poverty in general, but also deals more specifically with children, in-work poverty and the elderly, thus providing a life, generational and global perspective on poverty, including the impact on people’s happiness levels. The book also discusses policies aimed at poverty reduction, such as changes to the labour market – including the risk of working poor – and shows that there is a variety of possible instruments available to reduce poverty. These range from direct provision of social security to ensuring education and a better functioning labour market. Written in an engaging and accessible style, the book provides a succinct insight into the concept of poverty, how to measure it, the situation of poverty around the globe as well as different types of possible interventions to cope with poverty. Supporting theory with examples and case studies from a variety of contexts, suggestions for further reading, and a detailed glossary, this text is an essential read for anyone approaching the study of poverty for the first time.

**Finance** Nico van der Wijst 2013-01-17 By providing a solid theoretical basis, this book introduces modern finance to readers,

including students in science and technology, who already have a good foundation in quantitative skills. It combines the classical, decision-oriented approach and the traditional organization of corporate finance books with a quantitative approach that is particularly well suited to students with backgrounds in engineering and the natural sciences. This combination makes finance much more transparent and accessible than the definition-theorem-proof pattern that is common in mathematics and financial economics. The book's main emphasis is on investments in real assets and the real options attached to them, but it also includes extensive discussion of topics such as portfolio theory, market efficiency, capital structure and derivatives pricing. Finance equips readers as future managers with the financial literacy necessary either to evaluate investment projects themselves or to engage critically with the analysis of financial managers. Supplementary material is available at [www.cambridge.org/wijst](http://www.cambridge.org/wijst).  
*Earthquake Engineering and Structural Dynamics in Memory of Ragnar Sigbjörnsson*  
Rajesh Rupakhety 2017-12-07 This book presents methods and results that cover and extend beyond the state-of-the-art in structural dynamics and earthquake engineering. Most of the chapters are based on the keynote lectures at the International Conference in Earthquake Engineering and Structural Dynamics (ICESD), held in Reykjavik, Iceland, on June 12-14, 2017. The conference is being organised in memory of late Professor Ragnar Sigbjörnsson, who was an influential teacher and one of the leading researchers in the fields of structural mechanics, random fields, engineering seismology and earthquake engineering. Professor Sigbjörnsson had a close research collaboration with the Norwegian Institute of Science and Technology (NTNU), where his research was mainly focused in dynamics of marine and offshore structures. His research in Iceland was mainly focused on engineering seismology and earthquake engineering. The keynote-lecture based chapters are contributed by leading experts in these fields of research and showcase not

only the historical perspective but also the most recent developments as well as a glimpse into the future. These chapters showcase a synergy of the fields of structural dynamics, engineering seismology, and earthquake engineering. In addition, some chapters in the book are based on works carried out under the leadership and initiative of Professor Sigbjörnsson and showcase his contribution to the understanding of seismic hazard and risk in Iceland. As such, the book is useful for both researchers and practicing engineers who are interested in recent research advances in structural dynamics and earthquake engineering, and in particular to those interested in seismic hazard and risk in Iceland.

*An Introduction to Reservoir Simulation Using MATLAB/GNU Octave* Knut-Andreas Lie 2019-07-31 Presents numerical methods for reservoir simulation, with efficient implementation and examples using widely-used online open-source code, for researchers, professionals and advanced students. This title is also available as Open Access on Cambridge Core.

**Birds** Heimo Mikkola 2021-07-21 For many humans, birds are the most fascinating group of animals and they are definitely among the best-known and studied organisms. Thanks to global citizen science data, we know that there are some 50 billion individual birds in the world at present, which is about six birds for every human on the planet. Birds have an important role as indicators of the state of the environment, giving them high public value. Human-related global impacts such as climate changes and accelerating urbanization force extant species to continuous adaptations, population modifications, or even outright extinction. This book includes nine chapters covering such topics as bird genetics, the colour of avian plumage, conservation problems, sustainable hunting, habitat disturbance, range expansion and introductions, and long-term bird population changes and challenges. A key chapter explains the genetic rules and reasons why we have continuously more bird species in

the world and why we may end up having 7,000 species more than the present 11,000 species.

**Analysis of Phylogenetics and Evolution with R** Emmanuel Paradis 2011-11-06 The increasing availability of molecular and genetic databases coupled with the growing power of computers gives biologists opportunities to address new issues, such as the patterns of molecular evolution, and re-assess old ones, such as the role of adaptation in species diversification. In the second edition, the book continues to integrate a wide variety of data analysis methods into a single and flexible interface: the R language. This open source language is available for a wide range of computer systems and has been adopted as a computational environment by many authors of statistical software. Adopting R as a main tool for phylogenetic analyses will ease the workflow in biologists' data analyses, ensure greater scientific repeatability, and enhance the exchange of ideas and methodological developments. The second edition is completed updated, covering the full gamut of R packages for this area that have been introduced to the market since its previous publication five years ago. There is also a new chapter on the simulation of evolutionary data. Graduate students and researchers in evolutionary biology can use this book as a reference for data analyses, whereas researchers in bioinformatics interested in evolutionary analyses will learn how to implement these methods in R. The book starts with a presentation of different R packages and gives a short introduction to R for phylogeneticists unfamiliar with this language. The basic phylogenetic topics are covered: manipulation of phylogenetic data, phylogeny estimation, tree drawing, phylogenetic comparative methods, and estimation of ancestral characters. The chapter on tree drawing uses R's powerful graphical environment. A section deals with the analysis of diversification with phylogenies, one of the author's favorite research topics. The last chapter is devoted to the development of phylogenetic

methods with R and interfaces with other languages (C and C++). Some exercises conclude these chapters.

### **Essentials of Educational Measurement**

Robert L. Ebel 1972

### **Microbial Communities and their Interactions in the Extreme**

**Environment** Dilfuza Egamberdieva

2021-11-20 This second edition of the book entitled "Microbial Communities and Interactions in extreme environments" focus on thermophilic and halophilic extremophiles from various ecosystems, their biodiversity, interactions with other organisms and functions within their hostile environment. Biotechnology of extremophiles and their potential agricultural and industrial applications is the focus of this edition. However, extremophiles may cope with their challenging environments. Information on biodiversity of extremophiles and their interactions with the surrounding biomes helps in understanding their ecology and functions within their respective extreme environments. This book is of interest to teachers, researchers, microbiologists, capacity builders and policymakers. Also, the book serves as additional reading material for undergraduate and graduate students of agriculture, forestry, ecology, soil science, microbiology and environmental sciences.

### Empirical-statistical Downscaling Rasmus E.

Benestad 2008 Empirical-statistical downscaling (ESD) is a method for estimating how local climatic variables are affected by large-scale climatic conditions. ESD has been applied to local climate/weather studies for years, but there are few ? if any ? textbooks on the subject. It is also anticipated that ESD will become more important and commonplace in the future, as anthropogenic global warming proceeds. Thus, a textbook on ESD will be important for next-generation climate scientists.

### Corporate Social Responsibility in the Maritime Industry Lisa Loloma Froholdt

2018-03-16 This book addresses the environmental, legal, social, and economic

aspects of corporate social responsibility in the maritime industry. It discusses the voluntary aspects of the CSR concept and how the lines between informal and formal rules are merging and becoming fuzzy.

Further, it shows how regulation is enhancing responsibility and sustainability in the maritime industry. The book gathers the experiences of the WMU, IMO, UN and public and private actors in developing and developed countries in the maritime industry.

### Effectiveness of Disinfecting Wastewater Treatment Plant Discharges: Case of chemical disinfection using performic acid

Vincent Rocher 2021-04-15 "Cultural aversion to microbes, healthiness or desire for safe bathing, the applications for water disinfection are varied and the technologies used to achieve this goal are numerous. The authors looked at a simple solution to implement: the use of a reagent called performic acid. Consequently, more than two years of applied research, observations and analyzes were necessary to demonstrate its harmlessness towards the natural environment. The strength of the demonstration lies in the cross-vision of many researchers and scientists from different backgrounds who shared their studies and observations. The strength of this testimony also lies in the diversity of the application cases, including notable and sensitive receiving environments as different as the Seine, the Atlantic Ocean or the Venice lagoon. Through its intentions and results, this work is a step, moving forward the 2030 Agenda for Sustainable Development, particularly SDG 6 "clean water and sanitation" relying on the lever of SDG 17 "partnerships for the goals"." Denis Penouel, Deputy CEO in charge of Prospective

### **Microorganisms in Saline Environments: Strategies and Functions**

Bhoopander Giri 2019-07-25 This book gathers the latest findings on the microbial ecology of saline habitats, plant-microbe interactions under saline conditions, and saline soil reclamation for agricultural use. The content is divided into

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four main parts: Part I outlines the definition of salinity, its genesis and impacts, and microbial diversity in saline habitats. Part II deals with impact of salinity on microbial and plant life/health. Part III highlights plant - microbe interactions in saline environments, and Part IV describes strategies for mitigation and reclamation of saline soils. The salinization of arable land is steadily increasing in many parts of the world. An excessive concentration of soluble salts (salinity) in soils or irrigation water adversely affects plant growth and survival. This problem is exacerbated in arid and semiarid areas due to their low precipitation and high evaporation rates. In turn, poor management practices and policies for using river water for the irrigation of agriculture crops often lead to the secondary salinization of soils. Considering the growing demands of a constantly expanding population, understanding the microbial ecology and interactions under saline conditions and their implications for sustainable agriculture is of utmost importance. Providing both an essential review of the status quo and a future outlook, this book represents a valuable asset for researchers, environmentalists and students working in microbiology and agriculture. .

**Plant Growth-Promoting Microbes for Sustainable Biotic and Abiotic Stress Management** Heba I. Mohamed

2021-05-02 Abiotic and biotic stress factors, including drought, salinity, waterlog, temperature extremes, mineral nutrients, heavy metals, plant diseases, nematodes, viruses, and diseases, adversely affect growth as well as yield of crop plants worldwide. Plant growth-promoting microorganisms (PGPM) are receiving increasing attention from agronomists and environmentalists as candidates to develop an effective, eco-friendly, and sustainable alternative to conventional agricultural (e.g., chemical fertilizers and pesticide) and remediation (e.g., chelators-enhanced phytoremediation) methods employed to deal with climate change-induced stresses. Recent studies have shown that plant

growth-promoting bacteria (PGPB), rhizobia, arbuscular mycorrhizal fungi (AMF), cyanobacteria have great potentials in the management of various agricultural and environmental problems. This book provides current research of biofertilizers and the role of microorganisms in plant health, with specific emphasis on the mitigating strategies to combat plant stresses.

**Intelligent and Efficient Transport Systems** Truong Quang Dinh 2020-04-01

The aim of this book is to present a number of digital and technology solutions to real-world problems across transportation sectors and infrastructures. Nine chapters have been well prepared and organized with the core topics as follows: -A guideline to evaluate the energy efficiency of a vehicle - A guideline to design and evaluate an electric propulsion system -Potential opportunities for intelligent transportation systems and smart cities -The importance of system control and energy-power management in transportation systems and infrastructures -Bespoke modeling tools and real-time simulation platforms for transportation system development This book will be useful to a wide range of audiences: university staff and students, engineers, and business people working in relevant fields.

Introduction to Autonomous Mobile Robots, second edition Roland Siegwart 2011-02-18

The second edition of a comprehensive introduction to all aspects of mobile robotics, from algorithms to mechanisms. Mobile robots range from the Mars Pathfinder mission's teleoperated Sojourner to the cleaning robots in the Paris Metro. This text offers students and other interested readers an introduction to the fundamentals of mobile robotics, spanning the mechanical, motor, sensory, perceptual, and cognitive layers the field comprises. The text focuses on mobility itself, offering an overview of the mechanisms that allow a mobile robot to move through a real world environment to perform its tasks, including locomotion, sensing, localization, and motion planning. It synthesizes material from such fields as kinematics, control

theory, signal analysis, computer vision, information theory, artificial intelligence, and probability theory. The book presents the techniques and technology that enable mobility in a series of interacting modules. Each chapter treats a different aspect of mobility, as the book moves from low-level to high-level details. It covers all aspects of mobile robotics, including software and hardware design considerations, related technologies, and algorithmic techniques. This second edition has been revised and updated throughout, with 130 pages of new material on such topics as locomotion, perception, localization, and planning and navigation. Problem sets have been added at the end of each chapter. Bringing together all aspects of mobile robotics into one volume, *Introduction to Autonomous Mobile Robots* can serve as a textbook or a working tool for beginning practitioners. Curriculum developed by Dr. Robert King, Colorado School of Mines, and Dr. James Conrad, University of North Carolina-Charlotte, to accompany the National Instruments LabVIEW Robotics Starter Kit, are available. Included are 13 (6 by Dr. King and 7 by Dr. Conrad) laboratory exercises for using the LabVIEW Robotics Starter Kit to teach mobile robotics concepts.

The Discipline & Culture of Innovation Jay Rao 2013-01-01 Why do we forget about people when we talk about innovation? Innovation has been a popular subject for the last years. Bruce Nussbaum, perhaps exaggerating, said "Innovation died in 2008, killed off by overuse, misuse, narrowness, incrementalism and failure to evolve. It was done by CEOs, consultants, marketers, advertisers and business journalists who degraded and devalued the idea by conflating it with change, technology, design, globalization, trendiness, and anything new. It was done by an obsession with measurement, metrics and maths and a demand for predictability in an unpredictable world." If so, why another book on innovation? Because it is not one more book on the subject! It is a book that does not talk about innovation, but about people. Is there anything as important as

people when innovating? This book describes how to create a true culture of innovation, a culture where innovation is not an objective, but a consequence.

Polar Microbiology Asim K. Bej 2009-12-23 Pollution has accompanied polar exploration since Captain John Davis' arrival on the Antarctic continent in 1821 and has become an unavoidable consequence of oil spills in our polar regions. Fortunately, many of the organisms indigenous to Polar ecosystems have the ability to degrade pollutants. It is this metabolic capacity that forms the basis for bioremediation as a potential treatment for the hydrocarbons that contaminate the pristine polar environments. The only book to cover the breadth of microbial ecology and diversity in polar regions with an emphasis on bioremediation, *Polar Microbiology: The Ecology, Biodiversity, and Bioremediation Potential of Microorganisms in Extremely Cold Environments* examines the diversity of polar microorganisms and their ability to degrade petroleum hydrocarbon contaminants in polar terrestrial and aquatic environments. Providing a unique perspective of these microorganisms in extremely cold temperatures, the book focuses on their taxonomy, physiology, biochemistry, population structure, bioremediation potential, and potential for biotechnology applications. Leading investigators in the field provide complete coverage of the microbiology relevant to the study of biodiversity and biodegradation of pollutants in the Arctic and Antarctic, including: Microbial extremophiles living in cold and subzero temperature environments Genetics and physiology of cold adaptation of microorganisms Biodegradative microbial consortia in a defined closed environment Molecular characterization of biodegradative microbial populations Molecular approaches to assess biodegradation of petroleum hydrocarbons Environmental impact of hydrocarbon contamination Microbial biodiversity across Antarctic deserts By bringing together the current state of scientific knowledge and research on microbial community structures in

extremely cold temperatures, this thought provoking resource is the ideal starting point for the research that must be done if we are to effectively reduce human's eco-footprint on our polar regions.

**Backpacker** 2000-03 Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

### **Energy, Information, Feedback, Adaptation, and Self-organization**

Spyros G Tzafestas 2018-01-03 This unique book offers a comprehensive and integrated introduction to the five fundamental elements of life and society: energy, information, feedback, adaptation, and self-organization. It is divided into two parts. Part I is concerned with energy (definition, history, energy types, energy sources, environmental impact); thermodynamics (laws, entropy definitions, energy, branches of thermodynamics, entropy interpretations, arrow of time); information (communication and transmission, modulation-demodulation, coding-decoding, information theory, information technology, information science, information systems); feedback control (history, classical methodologies, modern methodologies); adaptation (definition, mechanisms, measurement, complex adaptive systems, complexity, emergence); and self-organization (definitions/opinions, self-organized criticality, cybernetics, self-organization in complex adaptive systems, examples in nature). In turn, Part II studies the roles, impacts, and applications of the five above-mentioned elements in life and society, namely energy (biochemical energy pathways, energy flows through food chains,

evolution of energy resources, energy and economy); information (information in biology, biocomputation, information technology in office automation, power generation/distribution, manufacturing, business, transportation), feedback (temperature, water, sugar and hydrogen ion regulation, autocatalysis, biological modeling, control of hard/technological and soft/managerial systems), adaptation and self-organization (ecosystems, climate change, stock market, knowledge management, man-made self-organized controllers, traffic lights control).

### **Understanding Host-Microbiome Interactions - An Omics Approach**

Ravindra Pal Singh 2017-09-01 This book offers up-to-date information on different microbiomes, their community composition and interactive functions with the host, bringing together information from diverse research reports to provide an overview of the rapid developments in meta-omics technologies. It is a valuable resource for scientists, researchers, postgraduate and graduate students interested in understanding the impact and importance of next generation sequencing technologies on different hosts and their microbiomes.

The Theory of Environmental Policy William J. Baumol 1988-02-26 An analysis of the economic theory of environmental policy and the factors influencing the quality of life. Recent research in environmental economics is incorporated as well as economic incentives for pollution control.

### **Computational and Statistical Methods in Intelligent Systems**

Radek Silhavy 2018-08-29 This book presents real-world problems and pioneering research in computational statistics, mathematical modeling, artificial intelligence and software engineering in the context of intelligent systems. It gathers the peer-reviewed proceedings of the 2nd Computational Methods in Systems and Software 2018 (CoMeSySo 2018), a conference that broke down traditional barriers by being held online. The goal of the event was to provide an international forum for discussing the latest high-quality research results.

Microbial Ecology of Leaves John H. Andrews 2012-12-06 The leaf surface or phyllosphere is a major habitat for microorganisms. Microbes on or within leaves play important roles in plant ecology, and these microbes can be manipulated to enhance plant growth or reduce plant disease. This book presents a number of critical reviews by internationally recognized experts on the microbial ecology of leaves. Topics include methods of assessment of microbial populations on leaf surfaces, leaves as reservoirs of ice nucleation phenomenon, and leaves as microbial habitats in both aquatic and terrestrial environments. The book will be of interest to students and scientists in numerous disciplines, including botany, aerobiology, meteorology, ecology, agriculture, and microbiology.

**Textural Characteristics of World Foods**

Katsuyoshi Nishinari 2020-03-09 A complete guide to the textural characteristics of an international array of traditional and special foods It is widely recognized that texture has an intrinsic relationship to food preference. A full understanding of its functions and qualities is, therefore, of crucial importance to food technologists and product developers, as well as those working towards the treatment of dysphagia. Textural Characteristics of World Foods is the first book to apply a detailed set of criteria and characteristics to the textures of traditional and popular foods from across the globe. Structuring chapters by region, its authors chart a journey through the textural landscapes of each continent's cuisines, exploring the complex and symbiotic relationships that exist between texture, aroma, and taste. This innovative text: Provides an overview of the textural characteristics of a wide range of foods Includes descriptions of textures and key points of flavor release Examines the relationships between the texture, taste, and aroma of each food presented Is structured by geographic region Rich with essential insights and important research, Textural Characteristics of World Foods offers all those working in food science and development a better picture of texture and

the multifaceted role it can play.

**Intelligent Information and Database Systems**

Ngoc Thanh Nguyen 2021-04-04 This book constitutes the refereed proceedings of the 13th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2021, held in Phuket, Thailand, in April 2021.\* The 67 full papers accepted for publication in these proceedings were carefully reviewed and selected from 291 submissions. The papers of the first volume are organized in the following topical sections: data mining methods and applications; machine learning methods; decision support and control systems; natural language processing; cybersecurity intelligent methods; computer vision techniques; computational imaging and vision; advanced data mining techniques and applications; intelligent and contextual systems; commonsense knowledge, reasoning and programming in artificial intelligence; data modelling and processing for industry 4.0; innovations in intelligent systems. \*The conference was held virtually.

Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy

Manoj Sahni 2021-02-28 This book presents new knowledge and recent developments in all aspects of computational techniques, mathematical modeling, energy systems, applications of fuzzy sets and intelligent computing. The book is a collection of best selected research papers presented at the International Conference on "Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy," organized by the Department of Mathematics, Pandit Deendayal Petroleum University, in association with Forum for Interdisciplinary Mathematics, Institution of Engineers (IEI) - Gujarat and Computer Society of India (CSI) - Ahmedabad. The book provides innovative works of researchers, academicians and students in the area of interdisciplinary mathematics, statistics, computational intelligence and renewable energy.

*Essentials in Fermentation Technology*, Aydin

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Berenjian 2019-07-15 This textbook teaches the principles and applications of fermentation technology, bioreactors, bioprocess variables and their measurement, key product separation and purification techniques as well as bioprocess economics in an easy to understand way. The multidisciplinary science of fermentation applies scientific and engineering principles to living organisms or

their useful components to produce products and services beneficial for our society. Successful exploitation of fermentation technology involves knowledge of microbiology and engineering. Thus the book serves as a must-have guide for undergraduates and graduate students interested in Biochemical Engineering and Microbial Biotechnology