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The Routledge Handbook of Agricultural Economics
Dying in America
The Business of Healthcare
Innovation
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Statistical Procedures for Agricultural Research
Statistical Mechanics
Essential Health Benefits
Food Literacy
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What's In, What's Out
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Foot and Ankle Sports Orthopaedics
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Carl Jung and Maximus the Confessor on Psychic Development
Tissue and Cell Clinical Use
Encyclopedia of Solid Earth Geophysics
E-Voting and Identity
Adolescent Health and Wellbeing
The ARML Power Contest
Neural Approaches to Dynamics of Signal Exchanges
Yearbook of International Organizations

The Routledge Handbook of Agricultural Economics

The Business of Healthcare Innovation is the first wide-ranging analysis of business trends in the manufacturing segment of the health care industry. In this leading edge volume, Professor Burns focuses on the key role of the 'producers' as the main source of innovation in health systems. Written by professors of the Wharton School and industry executives, this book provides a detailed overview of the pharmaceutical, biotechnology, genomics/proteomics, medical device and information technology sectors. It analyses the market structures of these sectors as well as the business models and corporate strategies of firms operating within them. Most importantly, the book describes the growing convergence between these sectors and the need for executives in one sector to increasingly draw upon trends in the others. It will be essential reading for students and researchers in the field of health management, and of great interest to strategy scholars, industry practitioners and management consultants.

Dying in America

This book explores the stigma of addiction and discusses ways to improve negative attitudes for better health outcomes. Written by experts in the field of addiction,

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the text takes a reader-friendly approach to the essentials of addiction stigma across settings and demographics. The authors reveal the challenges patients face in the spaces that should be the safest, including the home, the workplace, the justice system, and even the clinical community. The text aims to deliver tools to professionals who work with individuals with substance use disorders and lay persons seeking to combat stigma and promote recovery. The Stigma of Addiction is an excellent resource for psychiatrists, addiction medicine specialists, students across specialties, researchers, public health officials, and individuals with substance use disorders and their families.

The Business of Healthcare Innovation

The Demand for Health

Learn and apply the 14 core principles of cognitive behavior therapy In this invaluable guide, clinicians will find—identified and summarized by leading researchers and clinicians—fourteen core principles that subsume the more than 400 cognitive behavioral therapy (CBT) treatment protocols currently in use, so they may apply them to their everyday practice. This unique contribution to the field provides practitioners with a balance of history, theory, and evidence-based

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applications. Edited by renowned experts in the field, Cognitive Behavior Therapy explores the core principles behind all CBT protocols including: Clinical functional analysis Skills training Exposure Relaxation Cognitive restructuring Problem solving Self-regulation A straightforward introduction to CBT principles with guidance for all mental health professionals seeking to improve the lives of clients spanning a range of psychological problems, Cognitive Behavior Therapy is designed for both new and experienced clinicians alike who want to deepen and broaden their understanding of CBT principles.

Statistical Procedures for Agricultural Research

This book presents conjectural advances in big data analysis, machine learning and computational intelligence, as well as their potential applications in scientific computing. It discusses major issues pertaining to big data analysis using computational intelligence techniques, and the conjectural elements are supported by simulation and modelling applications to help address real-world problems. An extensive bibliography is provided at the end of each chapter. Further, the main content is supplemented by a wealth of figures, graphs, and tables, offering a valuable guide for researchers in the field of big data analytics and computational intelligence.

Statistical Mechanics

A multidisciplinary index covering the journal literature of the arts and humanities. It fully covers 1,144 of the world's leading arts and humanities journals, and it indexes individually selected, relevant items from over 6,800 major science and social science journals.

Essential Health Benefits

This Handbook offers an up-to-date collection of research on agricultural economics. Drawing together scholarship from experts at the top of their profession and from around the world, this collection provides new insights into the area of agricultural economics. The Routledge Handbook of Agricultural Economics explores a broad variety of topics including welfare economics, econometrics, agribusiness, and consumer economics. This wide range reflects the way in which agricultural economics encompasses a large sector of any economy, and the chapters present both an introduction to the subjects as well as the methodology, statistical background, and operations research techniques needed to solve practical economic problems. In addition, food economics is given a special focus in the Handbook due to the recent emphasis on health and feeding the world population a quality diet. Furthermore, through examining these diverse topics, the

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authors seek to provide some indication of the direction of research in these areas and where future research endeavors may be productive. Acting as a comprehensive, up-to-date, and definitive work of reference, this Handbook will be of use to researchers, faculty, and graduate students looking to deepen their understanding of agricultural economics, agribusiness, and applied economics, and the interrelationship of those areas.

Food Literacy

Statistical Mechanics discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents. The book emphasizes the equilibrium states of physical systems. The text first details the statistical basis of thermodynamics, and then proceeds to discussing the elements of ensemble theory. The next two chapters cover the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while Chapter 6 talks about the theory of simple gases. Chapters 7 and 8 examine the ideal Bose and Fermi systems. In the next three chapters, the book covers the statistical mechanics of interacting systems, which includes the method of cluster expansions, pseudopotentials, and quantized fields. Chapter 12 discusses the theory of phase transitions, while Chapter 13 discusses fluctuations. The book will be of great use to researchers and practitioners from wide array of disciplines,

such as physics, chemistry, and engineering.

Assessment and Learning in Content and Language Integrated Learning (CLIL) Classrooms

A directory of associations, intergovernmental bodies, religious groups, and other international organizations.

Arts & Humanities Citation Index

For patients and their loved ones, no care decisions are more profound than those made near the end of life. Unfortunately, the experience of dying in the United States is often characterized by fragmented care, inadequate treatment of distressing symptoms, frequent transitions among care settings, and enormous care responsibilities for families. According to this report, the current health care system of rendering more intensive services than are necessary and desired by patients, and the lack of coordination among programs increases risks to patients and creates avoidable burdens on them and their families. Dying in America is a study of the current state of health care for persons of all ages who are nearing the end of life. Death is not a strictly medical event. Ideally, health care for those nearing the end of life harmonizes with social, psychological, and spiritual support.

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All people with advanced illnesses who may be approaching the end of life are entitled to access to high-quality, compassionate, evidence-based care, consistent with their wishes. Dying in America evaluates strategies to integrate care into a person- and family-centered, team-based framework, and makes recommendations to create a system that coordinates care and supports and respects the choices of patients and their families. The findings and recommendations of this report will address the needs of patients and their families and assist policy makers, clinicians and their educational and credentialing bodies, leaders of health care delivery and financing organizations, researchers, public and private funders, religious and community leaders, advocates of better care, journalists, and the public to provide the best care possible for people nearing the end of life.

Pharmaceutical Freedom

This new book explores clinical information in the tissue transplantation field and acts as a comprehensive learning tool to comply with regulatory requirements. Broad in scope, coverage includes all the traditionally transplanted tissues and moves into more complex areas of tissue grafting and the assisted reproduction fields. This useful text focuses on the potential for disease transmission, ways to improve safety, and the role of the clinician in these safety aspects. The book starts off by describing non-surgical risks of using

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allografts and moves onto chapters devoted completely to tissue- or cell-specific issues relating to transplantation of the individual types of tissues or cells. Tissue and Cell Clinical Use: An Essential Guide is the final book in a series which covers all aspects of tissue banking, donation, processing, and transplantation. Each book in the series includes lists of learning points and case studies which consist of sample processing protocols, descriptions of where processing went wrong, sample risk assessments, or validation studies. This three book series covers all you need to know about tissue banking.

Textbook of Diabetes

What's In, What's Out

This book provides a comprehensive review of the diagnosis, management and treatment of sports injuries to the foot and ankle. The editors have assembled a list of contributors at the top of their field to define the medical management, treatment and surgery for the most common and highly debilitating sports injuries. Currently, foot and ankle injuries are the most common musculoskeletal injuries, thus this book fills the clear need for a state-of-the art resource that focuses upon this growing area of orthopaedic practice. Foot and Ankle Sports Orthopaedics is

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highly relevant to orthopaedic surgeons, sports orthopaedic surgeons and medical professionals dealing with sports injuries around the F&A. With clear and didactic information and superb illustrations, this book will prove to be an indispensable learning tool for readers seeking expert guidance to further their surgical skills in this area.

Earthquakes and Their Impact on Society

Qigong Teacher and Daoist Priest Michael Rinaldini has written a book on the modern day practices of a Daoist. His book, *A Daoist Practice Journal: Come Laugh With Me* offers the cultivation methods for walking the Daoist path. The entries cover topics like zuowang meditation, scriptures, qigong, the value of silence and solitude, and Daoist, Buddhist and Catholic mysticism, tea drinking and more. Here are some samples of his entries, which provide a glimpse into the heart of his writings.

2012 January 14 Sky Farm Hermitage Solitary Retreat In silence and solitude I begin another retreat on Saturday afternoon, January 14, 2012. The rest of Saturday afternoon was spent un-packing and settling into a 6-day retreat.

6:15pm What does a Daoist eat while on retreat? Tonight, I made a soup with soba noodles and assorted vegetables. I forgot to bring ginger root.

9:40pm I vow to practice in silence and solitude, until I realize Complete Perfection.

January 15
8:30pm One of my goals for this retreat is to write about the common practices between the Daoist and the Christian paths. I am specifically interested in the

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Daoist zuowang meditation method of sitting in forgetfulness or oblivion, and the Christian fourteenth-century mystical text, *The Cloud of Unknowing*. Both of these ways of meditation or contemplation feature an emphasis on placing the mind's activities into a state of forgetting or the cloud of forgetting. *The Cloud*, was written by an anonymous author, and it is speculated that the author was a Carthusian monk, and if not, possibly a Catholic priest living a hermetic lifestyle. And so what are the similarities, the common practices between zuowang meditation, and the contemplative practices as presented in *The Cloud of Unknowing*? January 16 2pm Sitting in silence outside on the porch, The only sounds-birds singing, An occasional movement of the wind, And very faint voices from neighbors down the valley. Odd at how sound travels. And right now, there was the sound of a car, actually, What I heard was the sound of the road, A gritty gravel sound. My mind filled in the blanks, And I instantly labeled it, "a car driving nearby," Though it could have been a truck. And now my sneezes and coughing, And blowing my nose, all disrupt the silence A large crow just landed in my valley, Returning me to silence. January 17 Sitting on the porch, all bundled up. Drinking Scottish Christmas tea and a banana, and one cookie. A large part of being in silence and solitude is simply listening. Even the wind down the valley. You can hear it as it makes its way up the hills, And now, I feel it against my body, It flaps the page of this journal book. And before you know it- It's gone, and the silence returns. Except for the birds, sound of distant dogs, chickens, And that same sound that cars/trucks make on the gravel road. 12:30pm *The Cloud's* author says: Forget

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what you know. Forget everything God made and everybody who exists and everything that's going on in the world, until your thoughts and emotions aren't focused on or reaching toward anything, not in a general way and not in any particular way. Let them be. For the moment, don't care about anything (11). And finally, why even bother to think? From the zuowang tradition: I forget the vastness even of Heaven and Earth, Never mind the minuteness of the hair in autumn. Resting in serenity and silence, I listen to Pure Harmony. Still, I am free, away from it all! Movement stilled, language silenced- Why ever think? (212). January 18 4:30 pm Inspired from yesterday's research, and last full day of retreat. Forget everything, Put nothing, between myself, And the Great Emptiness of Ultimate Stillness. That's the nameless Dao! End of Retreat

Foot and Ankle Sports Orthopaedics

Psychosocial Care for People with Diabetes describes the major psychosocial issues which impact living with and self-management of diabetes and its related diseases, and provides treatment recommendations based on proven interventions and expert opinion. The book is comprehensive and provides the practitioner with guidelines to access and prescribe treatment for psychosocial problems commonly associated with living with diabetes.

Efficient Reinforcement Learning Using Gaussian Processes

In what ways does psychological development differ from spiritual development and psychological experience from spiritual experience? Bringing together two disparate theories under a trans-disciplinary framework, G. C. Tympas presents a comparison of Carl Jung's theory of psychic development and Maximus the Confessor's model of spiritual progress. An 'evolutional' relationship between the 'psychological' and the 'spiritual' is proposed for a dynamic interpretation of spiritual experience. Carl Jung and Maximus the Confessor on Psychic Development offers a creative synthesis of elements and directions from both theories and further explores: - Jung's views on religion in a dialogue with Maximus' concepts - The different directions and goals of Jung's and Maximus' models - Jung's 'Answer to Job' in relation to Maximus' theory of 'final restoration'. Tympas argues that a synthesis of Jung's and Maximus' models comprises a broader trans-disciplinary paradigm of development, which can serve as a pluralistic framework for considering the composite psycho-spiritual development. Constructively combining strands of differing disciplines, this book will appeal to those looking to explore the dialogue between analytical psychology, early Christian theology and Greek philosophy.

Gears and Gear Drives

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An award-winning professor of economics at MIT and a Harvard University political scientist and economist evaluate the reasons that some nations are poor while others succeed, outlining provocative perspectives that support theories about the importance of institutions.

Psychosocial Care for People with Diabetes

Long-trusted and respected in the field, *Diagnostic Cytology and Hematology of the Dog and Cat, 3rd Edition* is a complete resource for developing and enriching the knowledge and skills needed for clinical laboratory diagnostics. Detailed illustrations and descriptions of cytologic and hematologic samples enable you to diagnose both common and uncommon diseases in dogs and cats. This concise source of microscopic evaluation techniques and interpretation guidelines for organ tissue, blood, and other body fluid specimens provides you with a basic understanding of sample collection and specimen preparation. Plus, helpful and easier-to-understand algorithms are generously distributed throughout the text, providing clear, easy-to-follow guidelines for diagnosis and treatment. Detailed instructions for in-house laboratory evaluation, as well as submission and transport of samples for commercial laboratory interpretation, are featured in tips and pitfalls throughout discussions on specimen preparation and diagnosis. Easier-to-follow algorithms, additional tables, and a user-friendly format allow quick and easy access to the most relevant information needed in a cytologic diagnosis. Over

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1,000 high-quality illustrations help you identify normal versus abnormal cells, enabling you to make accurate diagnoses. Four new chapters—Cell Types and Criteria of Malignancy, Selected Infectious Agents, Round Cell Tumors, and The Pancreas—present detailed information on these topics and how they relate to disease. Highly-respected expert contributors share their expertise from both academia and commercial diagnostic laboratories to provide the best and most current information available. The Lung and Intrathoracic Structures, The Gastrointestinal Tract, and Effusions: Abdominal, Thoracic, and Pericardial chapters have been expanded for more complete and up-to-date coverage of these important topics.

A Daoist Practice Journal

Cosmology has been transformed by dramatic progress in high-precision observations and theoretical modelling. This book surveys key developments and open issues for graduate students and researchers. Using a relativistic geometric approach, it focuses on the general concepts and relations that underpin the standard model of the Universe. Part I covers foundations of relativistic cosmology whilst Part II develops the dynamical and observational relations for all models of the Universe based on general relativity. Part III focuses on the standard model of cosmology, including inflation, dark matter, dark energy, perturbation theory, the cosmic microwave background, structure formation and gravitational lensing. It

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also examines modified gravity and inhomogeneity as possible alternatives to dark energy. Anisotropic and inhomogeneous models are described in Part IV, and Part V reviews deeper issues, such as quantum cosmology, the start of the universe and the multiverse proposal. Colour versions of some figures are available at www.cambridge.org/9780521381154.

Why Nations Fail

Now in its fifth edition, the Textbook of Diabetes has established itself as the modern, well-illustrated, international guide to diabetes. Sensibly organized and easy to navigate, with exceptional illustrations, the Textbook hosts an unrivalled blend of clinical and scientific content. Highly-experienced editors from across the globe assemble an outstanding set of international contributors who provide insight on new developments in diabetes care and information on the latest treatment modalities used around the world. The fifth edition features an array of brand new chapters, on topics including: Ischaemic Heart Disease Glucagon in Islet Regulation Microbiome and Diabetes Diabetes and Non-Alcoholic Fatty Liver Disease Diabetes and Cancer End of Life Care in Diabetes as well as a new section on Psychosocial aspects of diabetes. In addition, all existing chapters are fully revised with the very latest developments, including the most recent guidelines from the ADA, EASD, DUK and NICE. Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links,

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illustrations and photographs, and post-publication updates Via the companion website, readers can access a host of additional online materials such as: 200 interactive MCQ's to allow readers to self-assess their clinical knowledge every figure from the book, available to download into presentations fully searchable chapter pdfs Once again, Textbook of Diabetes provides endocrinologists and diabetologists with a fresh, comprehensive and multi-media clinical resource to consult time and time again.

Relativistic Cosmology

This book is a comprehensive introduction to "green" or environmentally friendly polymer composites developed using renewable polymers of natural origin such as starch, lignin, cellulose acetate, poly-lactic acid (PLA), polyhydroxylalkanoates (PHA), polyhydroxybutyrate (PHB), etc., and the development of modern technologies for preparing green composites with various applications. The book also discusses major applications of green polymer composites in industries such as medicine, biotechnology, fine chemicals and engineering.

The Mental Health and Substance Use Workforce for Older Adults

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If a competent adult refuses medical treatment, physicians and public officials must respect her decision. Coercive medical paternalism is a clear violation of the doctrine of informed consent, which protects patients' rights to make medical decisions even if a patient's choice endangers her health. The same reasons for rejecting medical paternalism in the doctor's office are also reasons to reject medical paternalism at the pharmacy, yet coercive medical paternalism persists in the form of premarket approval policies and prescription requirements for pharmaceuticals. In *Pharmaceutical Freedom* Jessica Flanigan defends patients' rights of self-medication. Flanigan argues that public officials should certify drugs instead of enforcing prohibitive pharmaceutical policies that disrespect people's rights to make intimate medical decisions and prevent patients from accessing potentially beneficial new therapies. This argument has revisionary implications for important and timely debates about medical paternalism, recreational drug legalization, human enhancement, prescription drug prices, physician assisted suicide, and pharmaceutical marketing. The need for reform is especially urgent as medical treatment becomes increasingly personalized and patients advocate for the right to try. The doctrine of informed consent revolutionized medicine in the twentieth century by empowering patients to make treatment decisions. Rights of self-medication are the next step.

Banditry in the Medieval Balkans, 800-1500

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A seminal work in health economics first published in 1972, Michael Grossman's *The Demand for Health* introduced a new theoretical model for determining the health status of the population. His work uniquely synthesized economic and public health knowledge and has catalyzed a vastly influential body of health economics literature. It is well past time to bring this important work back into print.

Grossman bases his approach on Gary S. Becker's household production function model and his theory of investment in human capital. Consumers demand health, which can include illness-free days in a given year or life expectancy, and then produce it through the input of medical care services, diet, other market goods and services, and time. Grossman also treats health and knowledge as equal parts of the durable stock of human capital. Consumers therefore have an incentive to invest in health to increase their earnings in the future. From here, Grossman examines complementarities between health capital and other forms of human capital, the most important of which is knowledge capital earned through schooling and its effect on the efficiency of production. He concludes that the rate of return on investing in health by increasing education may exceed the rate of return on investing in health through greater medical care. Higher income may not lead to better health outcomes, as wealth enables the consumption of goods and services with adverse health effects. These are some of the major revelations of Grossman's model, findings that have great relevance as we struggle to understand the links between poverty, education, structural disadvantages, and health.

Investing in the Health and Well-Being of Young Adults

Here in one easy-to-understand volume are the statistical procedures and techniques the agricultural researcher needs to know in order to design, implement, analyze, and interpret the results of most experiments with crops. Designed specifically for the non-statistician, this valuable guide focuses on the practical problems of the field researcher. Throughout, it emphasizes the use of statistics as a tool of research—one that will help pinpoint research problems and select remedial measures. Whenever possible, mathematical formulations and statistical jargon are avoided. Originally published by the International Rice Research Institute, this widely respected guide has been totally updated and much expanded in this Second Edition. It now features new chapters on the analysis of multi-observation data and experiments conducted over time and space. Also included is a chapter on experiments in farmers' fields, a subject of major concern in developing countries where agricultural research is commonly conducted outside experiment stations. *Statistical Procedures for Agricultural Research, Second Edition* will prove equally useful to students and professional researchers in all agricultural and biological disciplines. A wealth of examples of actual experiments help readers to choose the statistical method best suited for their needs, and enable even the most complicated procedures to be easily understood and directly applied. An International Rice Research Institute Book

Diagnostic Cytology and Hematology of the Dog and Cat - E-Book

The past few decades have witnessed the growth of the Earth Sciences in the pursuit of knowledge and understanding of the planet that we live on. This development addresses the challenging endeavor to enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come. Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework, which other allied disciplines utilize for more specific investigations. The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company. More than two decades later, this new volume, edited by Prof. Harsh K. Gupta, represents a thoroughly revised and expanded reference work. It brings together more than 200 articles covering established and new concepts of Geophysics across the various sub-disciplines such as Gravity, Geodesy, Geomagnetism, Seismology, Seismics, Deep Earth Processes, Plate Tectonics, Thermal Domains, Computational Methods, etc. in a systematic and consistent format and standard. It is an authoritative and current reference source with extraordinary width of scope. It draws its unique strength from the expert contributions of editors and authors across the globe. It is designed to serve as a valuable and cherished source of information for current

and future generations of professionals.

Financial Sector Development and the Millennium Development Goals

This book provides an integrated approach to the assessment of seismic hazards. The reduction of losses expected by future earthquakes is probably the most important contribution of seismology to society. Large earthquakes occurred in densely populated areas highlight the dramatic inadequacy of a massive portion of the buildings demonstrating the high risks of modern industrial societies. Building earthquake-resistant structures and retrofitting old buildings on a national scale can be extremely expensive and can represent an economic challenge even for developed western countries. Earthquakes can cause also several psychological problems due to the fact that such kind of disasters will result in casualties, collapsing of houses, strategic buildings and facilities and deeply affect a community. Moreover in our society it is necessary to properly plan emergency responses and rescues taking into account any possible secondary effect in order to avoid more casualties.

The Stigma of Addiction

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The ARML (American Regions Math League) Power Contest is truly a unique competition in which a team of students is judged on its ability to discover a pattern, express the pattern in precise mathematical language, and provide a logical proof of its conjectures. Just as a team of students can be self-directed to solve each problem set, a teacher, math team coach, or math circle leader could take these ideas and questions and lead students into problem solving and mathematical discovery. This book contains thirty-seven interesting and engaging problem sets from the ARML Power Contests from 1994 to 2013. They are generally extensions of the high school mathematics classroom and often connect two remote areas of mathematics. Additionally, they provide meaningful problem situations for both the novice and the veteran mathlete. Thomas Kilkelly has been a mathematics teacher for forty-three years. During that time he has been awarded several teaching honors and has coached many math teams to state and national championships. He has always been an advocate for more discovery, integration, and problem solving in the mathematics classroom. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession. Titles in this series are co-published with the Mathematical Sciences Research Institute (MSRI).

Green Polymer Composites Technology

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Young adulthood - ages approximately 18 to 26 - is a critical period of development with long-lasting implications for a person's economic security, health and well-being. Young adults are key contributors to the nation's workforce and military services and, since many are parents, to the healthy development of the next generation. Although 'millennials' have received attention in the popular media in recent years, young adults are too rarely treated as a distinct population in policy, programs, and research. Instead, they are often grouped with adolescents or, more often, with all adults. Currently, the nation is experiencing economic restructuring, widening inequality, a rapidly rising ratio of older adults, and an increasingly diverse population. The possible transformative effects of these features make focus on young adults especially important. A systematic approach to understanding and responding to the unique circumstances and needs of today's young adults can help to pave the way to a more productive and equitable tomorrow for young adults in particular and our society at large. Investing in The Health and Well-Being of Young Adults describes what is meant by the term young adulthood, who young adults are, what they are doing, and what they need. This study recommends actions that nonprofit programs and federal, state, and local agencies can take to help young adults make a successful transition from adolescence to adulthood. According to this report, young adults should be considered as a separate group from adolescents and older adults. Investing in The Health and Well-Being of Young Adults makes the case that increased efforts to

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improve high school and college graduate rates and education and workforce development systems that are more closely tied to high-demand economic sectors will help this age group achieve greater opportunity and success. The report also discusses the health status of young adults and makes recommendations to develop evidence-based practices for young adults for medical and behavioral health, including preventions. What happens during the young adult years has profound implications for the rest of the life course, and the stability and progress of society at large depends on how any cohort of young adults fares as a whole. Investing in The Health and Well-Being of Young Adults will provide a roadmap to improving outcomes for this age group as they transition from adolescence to adulthood.

Green's Fruit Grower and Home Companion

Vaccinate children against deadly pneumococcal disease, or pay for cardiac patients to undergo lifesaving surgery? Cover the costs of dialysis for kidney patients, or channel the money toward preventing the conditions that lead to renal failure in the first place? Policymakers dealing with the realities of limited health care budgets face tough decisions like these regularly. And for many individuals, their personal health care choices are equally stark: paying for medical treatment could push them into poverty. Many low- and middle-income countries now aspire to universal health coverage, where governments ensure that all people have

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access to the quality health services they need without risk of impoverishment. But for universal health coverage to become reality, the health services offered must be consistent with the funds available—and this implies tough everyday choices for policymakers that could be the difference between life and death for those affected by any given condition or disease. The situation is particularly acute in low- and middle income countries where public spending on health is on the rise but still extremely low, and where demand for expanded services is growing rapidly. *What's In, What's Out: Designing Benefits for Universal Health Coverage* argues that the creation of an explicit health benefits plan—a defined list of services that are and are not available—is an essential element in creating a sustainable system of universal health coverage. With contributions from leading health economists and policy experts, the book considers the many dimensions of governance, institutions, methods, political economy, and ethics that are needed to decide what's in and what's out in a way that is fair, evidence-based, and sustainable over time.

Data Science and Big Data Analytics

Cognitive Behavior Therapy

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Understanding how gears are formed and how they interact or 'mesh' with each other is essential when designing equipment that uses gears or gear trains. The way in which gear teeth are formed and how they mesh is determined by their geometry and kinematics, which is the topic of this book. *Gears and Gear Drives* provides the reader with comprehensive coverage of gears and gear drives. Spur, helical, bevel, worm and planetary gears are all covered, with consideration given to their classification, geometry, kinematics, accuracy control, load capacity and manufacturing. Cylindrical gear geometry is the basis for dealing with any gear drives, so this is covered in detail. Key features: Contains hundreds of 2D and 3D figures to illustrate all types of gears and gear drives, including planetary and worm gears Includes fundamental derivations and explanations of formulae Enables the reader to know how to carry out accuracy control and load capacity checks for any gear drive Includes directions for the practical design of gears and gear drives Covers DIN and ISO standards in the area *Gears and Gear Drives* is a comprehensive reference for gears and gear drive professionals and graduate students in mechanical engineering departments and covers everything important to know how to design, control and manufacture gear drives.

Bulletin of the World Health Organization

Globally, the food system and the relationship of the individual to that system, continues to change and grow in complexity. Eating is an everyday event that is

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part of everyone's lives. There are many commentaries on the nature of these changes to what, where and how we eat and their socio-cultural, environmental, educational, economic and health consequences. Among this discussion, the term "food literacy" has emerged to acknowledge the broad role food and eating play in our lives and the empowerment that comes from meeting food needs well. In this book, contributors from Australia, China, United Kingdom and North America provide a review of international research on food literacy and how this can be applied in schools, health care settings and public education and communication at the individual, group and population level. These varying perspectives will give the reader an introduction to this emerging concept. The book gathers current insights and provides a platform for discussion to further understanding and application in this field. It stimulates the reader to conceptualise what food literacy means to their practice and to critically review its potential contribution to a range of outcomes.

Carl Jung and Maximus the Confessor on Psychic Development

The book presents research that contributes to the development of intelligent dialog systems to simplify diverse aspects of everyday life, such as medical diagnosis and entertainment. Covering major thematic areas: machine learning and artificial neural networks; algorithms and models; and social and biometric data for applications in human-computer interfaces, it discusses processing of

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audio-visual signals for the detection of user-perceived states, the latest scientific discoveries in processing verbal (lexicon, syntax, and pragmatics), auditory (voice, intonation, vocal expressions) and visual signals (gestures, body language, facial expressions), as well as algorithms for detecting communication disorders, remote health-status monitoring, sentiment and affect analysis, social behaviors and engagement. Further, it examines neural and machine learning algorithms for the implementation of advanced telecommunication systems, communication with people with special needs, emotion modulation by computer contents, advanced sensors for tracking changes in real-life and automatic systems, as well as the development of advanced human-computer interfaces. The book does not focus on solving a particular problem, but instead describes the results of research that has positive effects in different fields and applications.

Tissue and Cell Clinical Use

Encyclopedia of Solid Earth Geophysics

E-Voting and Identity

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At least 5.6 million to 8 million--nearly one in five--older adults in America have one or more mental health and substance use conditions, which present unique challenges for their care. With the number of adults age 65 and older projected to soar from 40.3 million in 2010 to 72.1 million by 2030, the aging of America holds profound consequences for the nation. For decades, policymakers have been warned that the nation's health care workforce is ill-equipped to care for a rapidly growing and increasingly diverse population. In the specific disciplines of mental health and substance use, there have been similar warnings about serious workforce shortages, insufficient workforce diversity, and lack of basic competence and core knowledge in key areas. Following its 2008 report highlighting the urgency of expanding and strengthening the geriatric health care workforce, the IOM was asked by the Department of Health and Human Services to undertake a complementary study on the geriatric mental health and substance use workforce. *The Mental Health and Substance Use Workforce for Older Adults: In Whose Hands?* assesses the needs of this population and the workforce that serves it. The breadth and magnitude of inadequate workforce training and personnel shortages have grown to such proportions, says the committee, that no single approach, nor a few isolated changes in disparate federal agencies or programs, can adequately address the issue. Overcoming these challenges will require focused and coordinated action by all.

Adolescent Health and Wellbeing

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In 2010, an estimated 50 million people were uninsured in the United States. A portion of the uninsured reflects unemployment rates; however, this rate is primarily a reflection of the fact that when most health plans meet an individual's needs, most times, those health plans are not affordable. Research shows that people without health insurance are more likely to experience financial burdens associated with the utilization of health care services. But even among the insured, underinsurance has emerged as a barrier to care. The Patient Protection and Affordable Care Act (ACA) has made the most comprehensive changes to the provision of health insurance since the development of Medicare and Medicaid by requiring all Americans to have health insurance by 2016. An estimated 30 million individuals who would otherwise be uninsured are expected to obtain insurance through the private health insurance market or state expansion of Medicaid programs. The success of the ACA depends on the design of the essential health benefits (EHB) package and its affordability. Essential Health Benefits recommends a process for defining, monitoring, and updating the EHB package. The book is of value to Assistant Secretary for Planning and Evaluation (ASPE) and other U.S. Department of Health and Human Services agencies, state insurance agencies, Congress, state governors, health care providers, and consumer advocates.

The ARML Power Contest

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This book constitutes the thoroughly refereed conference proceedings of the 5th International Conference on E-Voting and Identity, VotID 2015, held in Bern, Switzerland, in September 2015. The 10 revised full papers presented, including one keynote and three invited talks, were carefully selected from 26 submissions. The papers deal with real-world electronic systems; advanced voting protocols; document analysis, machine-checked reasoning, e-voting system in court.

Neural Approaches to Dynamics of Signal Exchanges

This study investigates the relationship between financial sector development and progress in reaching the Millennium Development Goals (MDGs). It assesses the contribution of countries' financial sector development to achieving the MDGs. The focus is on the relationships between financial development and economic welfare and growth, and the following four MDG-themes: Poverty, Education, Health, and Gender Equality. In doing so, the book reviews the theoretical channels, surveys existing empirical evidence - both cross-country and case study evidence, and provides new evidence. Financial Sector Development and the Millennium Development Goals finds that financial development is an important driver for economic welfare in that it reduces the prevalence of income poverty and undernourishment. In addition, new evidence is provided of a positive association between financial development and health, education, and gender equality.

Yearbook of International Organizations

This book presents a detailed and updated review of the widespread changes that take place during adolescence, adopting a preventive perspective that reflects physical, social, cognitive, and emotional changes. It addresses a broad range of aspects, including: the preventive programs and their systemic effects; the role of environment in influencing the healthy behaviors of adolescents and young adults; the use of e-Health technology in health and behavioral interventions for adolescents; and the clinical and prognostic implications of primordial prevention in healthy adolescents. All of these elements are subsequently reviewed using a multidimensional approach, in order to offer extensive information on the complex changes that characterize adolescents' physiological, psychological, and neurobiological development. In addition, the book depicts the preventive strategies currently used in various social settings (school, family, sport club, health policies) aimed not only at reducing lifestyle risk behaviors, but also at improving resilience, happiness, social involvement, self-esteem, and sociability. This update is essential in the light of the fact that, to date, prevention has mainly been directed towards adolescents with physical or mental disorders rather than their healthy peers. As such, the book offers a valuable tool for pediatricians, child and adolescents psychiatrists, and for all professionals involved in Health Promotion and Disease Prevention.

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