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### Tornos Amutio-Cazeneuve

### Manual de Instrucciones H.B. 500-575 y 725-810

### Goal Attainment Scaling

### Applications, Theory, and Measurement

Psychology Press There is an extensive literature on Goal Attainment Scaling (GAS), but the publications are widely scattered and often inaccessible, covering several foreign countries and many professional disciplines and fields of application. This book provides both a user manual and a complete reference work on GAS, including a comprehensive account of what the method is, what its strengths and limitations are, how it can be used, and what it can offer. The book is designed to be of interest to service providers, program directors and administrators, service and business organizations, program evaluators, researchers, and students in a variety of fields. No previous account of GAS has provided an up-to-date, comprehensive description and explanation of the technique. The chapters include a basic "how to do it" handbook, step-by-step implementation instructions, frequently occurring problems and what should be done about them, methods for monitoring the quality of the goal setting process, and a discussion of policy and administration issues. There are many illustrations from actual applications including examples of goals scaled for the individual, the specific program, the agency, or the total system. Procedures for training and estimates of training costs are also provided.

### Waste Biorefineries: Future Energy, Green Products and Waste Treatment

Frontiers Media SA Energy recovery from waste resources holds a significant role in the sustainable waste management hierarchy to support the concept of circular economies and to mitigate the challenges of waste originated problems of sanitation, environment, and public health. Today, waste disposal to landfills is the most widely used methodology, particularly in developing countries, because of limited budgets and lack of efficient infrastructure and facilities to maintain efficient and practical global standards. As a consequence, the dump-sites or non-sanitary landfills have become the significant sources of greenhouse gases emissions, soil and water contamination, unpleasant odors, leachate, and disease spreading vectors, flies, and rodents. However, waste can be utilized to produce a range of potential products such as energy, fuels and value-added products under waste biorefineries. A holistic and quantitative view, such as waste biorefinery, on waste management must be linked to the actual country, taking into account its socio-economic situation, local waste sources, and composition, as well as the available markets for the recovered energy and products. Therefore, it is critical to understand that solutions cannot be just copied from one region to the others. In fact, all waste handling, transportation, and treatment can represent a burden to the cities' environment and macro and micro economics, except for the benefits obtained from recovered materials and energy. Equally significant is a clear and quantitative understanding of the industrial, and public potential of utilizing recovered materials and energy in the markets as these can be reached without exacerbating the environmental issues using excessive transport. The book explores new advancements and discoveries on the development of emerging waste-to-energy technologies, practical implementation, and lessons learned from sustainable wastemanagement practices under waste biorefinery concept, which will accelerate the growth of circular economies in the world. The articles presented in this book have been written by expert researchers and academics working in institutions at different countries across the world including Germany, Greece, Japan, South Korea, China, Saudi Arabia, Pakistan, Indonesia, Malaysia, Iran, and India. The research articles have been arranged into three main subject categories; 1) Resource recovery from waste, 2) Waste to energy technologies and 3) Waste biorefineries. This book will serve as an important resource for research students, academics, industry, policy makers, and government agencies working in the field of integrated waste management, energy and resource recovery, waste to energy technologies, waste

biorefineries etc. The editorial team of this book is very grateful to all the authors for their excellent contributions and making the book successful.

## Overcoming Inequalities in Schools and Learning Communities: Innovative Education for a New Century

[Frontiers Media SA](#) Educational inequalities have strongly impacted disadvantaged and underserved populations such as indigenous, Roma, migrant children, students with disabilities, and those affected by poverty. A wide array of research has contributed to explaining the mechanisms and effects of inequalities in the achievement patterns, dropout rates, disengagement in the school experiences of children and youth traditionally excluded. Research also suggests the negative consequences for child development - including cognitive, language, and social-emotional functioning - of poverty and lack of quality education in the early years. Consequently, the current unequal access to optimal learning environments for every single child to succeed in education and to have a better life perpetuates the exclusion and neglects their right to education for those minorities. This Research Topic aims at moving beyond causes and shed light upon effective solutions by providing successful pathways for integration and inclusion of the learners most heavily affected. Scholars worldwide are looking for successful actions with children, youth, and communities of learners historically underserved to overcome educational and social exclusion. These transformative approaches go beyond the deficit thinking and are grounded in theories, empirical evidence, and multidisciplinary interventions oriented towards achieving social impact, which refers to the extent to which those actions have contributed to improve a societal challenge. The international network of "Schools as Learning Communities" is advancing knowledge on deepening and expanding the impact of what has been defined as Successful Educational Actions (SEAs); that is, those interventions that improve students' achievement and social cohesion and inclusion in many diverse contexts, regardless the socioeconomic, national, and cultural environment of schools. Drawing on the evidence generated by this network of researchers to address the global challenge of inequality by studying educational actions oriented towards achieving social impact and potentially transferrable to other contexts, this Research Topic aims at deepening on this approach. In short, our purpose is that the contributions included in this Research Topic contribute to reduce educational and social inequalities and especially benefit those populations most in need.

## School Achievement and Failure in Portuguese and Spanish Speaking Countries

[Frontiers Media SA](#) This book is devoted to an increasingly important educational problem in the modern societies: school achievement and failure. School failure is presently a problem in developed as well as in developing countries. In the Spanish and Portuguese speaking countries in Europe and Latin America, school achievement and failure is consequently an important topic of political, social and scientific discussion. The following papers revise the latest research in the field, from the perspective of Psychology.

## Induced Breeding in Tropical Fish Culture

[International Development Research Centre Books](#) **Induced Breeding in Tropical Fish Culture**

## Biomass Combustion Science, Technology and Engineering

[Elsevier](#) The utilisation of biomass is increasingly important for low- or zero-carbon power generation. Developments in conventional power plant fuel flexibility allow for both direct biomass combustion and co-firing with fossil fuels, while the integration of advanced technologies facilitates conversion of a wide range of biomass feedstocks into more readily combustible fuel. Biomass combustion science, technology and engineering reviews the science and technology of biomass combustion, conversion and utilisation. Part one provides an introduction to biomass supply chains and feedstocks, and outlines the principles of biomass combustion for power generation. Chapters also describe the categorisation and preparation of biomass feedstocks for combustion and gasification. Part two goes on to explore biomass combustion and co-firing, including direct combustion of biomass, biomass co-firing and gasification, fast pyrolysis of biomass for the production of liquids and intermediate pyrolysis technologies. Large scale biomass combustion and biorefineries are then the focus of part three. Following an overview of large-scale biomass combustion plants, key engineering issues and plant operation are discussed, before the book concludes with a chapter looking at the role of biorefineries in increasing the value of the end-products of biomass conversion. With its distinguished editor and international team of expert contributors, Biomass combustion science, technology and engineering provides a clear overview of this important area for all power plant operators, industrial engineers, biomass researchers, process chemists and academics working in this field. Reviews the science and technology of biomass combustion, conversion and utilisation Provides an introduction to biomass supply chains and feedstocks and outlines the principles of biomass combustion for power generation Describes the categorisation and preparation of biomass feedstocks for combustion and gasification

# Pediatric Acute Lymphoblastic Leukemia

[Springer Nature](#) This book discusses key aspects of childhood acute lymphoblastic leukemia (ALL), presenting the latest research on the biology and treatment of the disease and related issues. The cure rate for ALL has improved dramatically due to advances such as supportive care, treatment stratification based on relapse risk, and the optimization of treatment regimens. Gathering contributions by eminent scholars Pediatric Acute Lymphoblastic Leukemia is a valuable resource for pediatric hematologists as well as for medical students, interns, residents and fellows. It not only offers comprehensive insights, but also provides a springboard for future research.

## Bibliografía española

EPA-540/R.

# A First Course in Factor Analysis

[Psychology Press](#) The goal of this book is to foster a basic understanding of factor analytic techniques so that readers can use them in their own research and critically evaluate their use by other researchers. Both the underlying theory and correct application are emphasized. The theory is presented through the mathematical basis of the most common factor analytic models and several methods used in factor analysis. On the application side, considerable attention is given to the extraction problem, the rotation problem, and the interpretation of factor analytic results. Hence, readers are given a background of understanding in the theory underlying factor analysis and then taken through the steps in executing a proper analysis -- from the initial problem of design through choice of correlation coefficient, factor extraction, factor rotation, factor interpretation, and writing up results. This revised edition includes introductions to newer methods -- such as confirmatory factor analysis and structural equation modeling -- that have revolutionized factor analysis in recent years. To help remove some of the mystery underlying these newer, more complex methods, the introductory examples utilize EQS and LISREL. Updated material relating to the validation of the Comrey Personality Scales also has been added. Finally, program disks for running factor analyses on either an IBM-compatible PC or a mainframe with FORTRAN capabilities are available. The intended audience for this volume includes talented but mathematically unsophisticated advanced undergraduates, graduate students, and research workers seeking to acquire a basic understanding of the principles supporting factor analysis. Disks are available in 5.25" and 3.5" formats for both mainframe programs written in Fortran and IBM PCs and compatibles running a math co-processor.

## Microarray Innovations

# Technology and Experimentation

[CRC Press](#) In recent years, high-density DNA microarrays have revolutionized biomedical research and drug discovery efforts by the pharmaceutical industry. Their efficacy in identifying and prioritizing drug targets based on their ability to confirm a large number of gene expression measurements in parallel has become a key element in drug discovery. **Microarray Innovations: Technology and Experimentation** examines the incredibly powerful nature of array technology and the ways in which it can be applied to understanding the genomic basis of disease. Explores a myriad of applications in use today This volume explores recent innovations in the microarray field and tracks the evolution of the major platforms currently used. The international panel of contributors presents a survey of the past five years' research and advancements in microarray methods and applications and their usage in drug discovery and biomedical research. The contributions discuss improvements in automation (array fabrication and hybridization), new substrates for printing arrays, platform comparisons and contrasts, experimental design, and data normalization and mining schemes. They also review epigenomic array studies, electronic microarrays, comparative genomic hybridization, microRNA arrays, and mutational analyzes. In addition, the book provides coverage of important clinical diagnostic arrays, protein arrays, and neuroscience applications. Examines improved methodologies As microarrays have evolved steadily over time from archetypical in-house complementary DNA (cDNA) arrays to robust commercial oligonucleotide platforms, there has been a migration to higher density biochips with increasing content and better analytical methodologies. This compendium summarizes the vast advances that have been made in this technology, highlighting the supreme advantages of microarray-based approaches in the field of biomedical research. Daniel E. Levy, editor of the Drug Discovery Series, is the founder of DEL BioPharma, a consulting service for drug discovery programs. He also maintains a blog that explores organic chemistry.

## Mayo Clinic Strategies to Reduce Burnout

# 12 Actions to Create the Ideal Workplace

[Oxford University Press, USA](#) "In this book, we tell the story of burnout of health care professionals. Many believe burnout to be the result of individual weakness when, in fact, burnout is primarily the result of health care systems that take emotionally healthy, altruistic people and methodically squeeze the vitality and passion out of them. Burned-out professionals are exhausted, jaded, demoralized, and isolated, and they have lost their sense of meaning and purpose. Frequently, these individuals are shamed and blamed by leaders who suggest they should sleep longer, meditate, and become more resilient even as they expect them to work harder, see more patients, embrace rapidly changing technology, stay abreast of new medical advances, and provide quality health care"--Provided by publisher.

## Haploidentical Transplantation

### Concepts & Clinical Application

[Springer](#) In this book, world-renowned experts in the field express well-reasoned opinions on a range of issues and controversies relating to haploidentical transplantation with the aim of providing practicing hematologists with clinically relevant and readily applicable information. Among the areas covered are graft manipulation and methods to control T-cell alloreactivity, the nature of the ideal graft and donor, haploidentical transplantation in pediatric and adult patients with malignant and nonmalignant diseases, immunologic reconstitution following transplantation, complications, and the prevention and treatment of relapse post transplantation. Attention is drawn to the implications of high-impact clinical trials whenever such trials are available. The readily intelligible text is complemented by numerous helpful tables, algorithms, and figures. The book will provide practical support for hematologists and transplant physicians as they attempt to provide optimal care in this exciting but increasingly complex medical specialty.

## Biomass Utilization

[Springer Science & Business Media](#) This proceedings volume represents the culmination of nearly three years of planning, organizing and carrying out of a NATO Advanced Study Institute on Biomass Utilization. The effort was initiated by Dr. Harry Sobel, then Editor of Biosources Digest, and a steering committee representing the many disciplines that this field brings together. . When the fiscal and logistical details of the original plan could not be worked out, the idea was temporarily suspended. In the spring of 1982, the Renewable Materials Institute of the State University of New York at the College of Environmental Science and Forestry in Syracuse, New York revived the plan. A number of modifications had to be made, including the venue which was changed from the U.S.A. to Portugal. Additional funding beyond the basic support provided by the Scientific Affairs Division of NATO had to be obtained. Ultimately there were supplementary grants from the Foundation for Microbiology and the Anne S. Richardson Fund to assist student participants. The New York State College of Forestry Foundation, Inc. provided major support through the Renewable Materials Institute. The ASI was held in Alcabideche, Portugal from September 26 to October 9, 1982. Eighty participants including fifteen principal lecturers were assembled at the Hotel Sintra Estoril for the program that was organized as a comprehensive course on biomass utilization. The main lectures were supplemented by relevant short papers offered by the participants.

## Pulp and Paper Chemistry and Technology. 4 Vols

**Summary:** The production of forestry products is based on a complex chain of knowledge in which the biological material wood with all its natural variability is converted into a variety of fiber-based products, each one with its detailed and specific quality requirements. This four volume set covers the entire spectrum of pulp and paper chemistry and technology from starting material to processes and products including market demands. Supported by a grant from the Ljungberg Foundation, the Editors at the Royal Institute of Technology, Stockholm, Sweden coordinated over 30 authors from university and industry to create this comprehensive overview. This work is essential for all students of wood science and a useful reference for those working in the pulp and paper industry or on the chemistry of renewable resources

## Bioalcohol Production

### Biochemical Conversion of Lignocellulosic Biomass

[Elsevier](#) Bioethanol is one of the main biofuels currently used as a petroleum-substitute in transport applications. However, conflicts over food supply and land use have made its production and utilisation a controversial topic. Second generation bioalcohol production technology, based on (bio)chemical conversion of non-food lignocellulose, offers potential advantages over existing, energy-intensive bioethanol production processes. Food vs. fuel pressures may be reduced by utilising a wider range of lignocellulosic biomass feedstocks, including energy crops, cellulosic residues, and, particularly, wastes. Bioalcohol production covers the process engineering, technology, modelling and integration

of the entire production chain for second generation bioalcohol production from lignocellulosic biomass. Primarily reviewing bioethanol production, the book's coverage extends to the production of longer-chain bioalcohols which will be elemental to the future of the industry. Part one reviews the key features and processes involved in the pretreatment and fractionation of lignocellulosic biomass for bioalcohol production, including hydrothermal and thermochemical pretreatment, and fractionation to separate out valuable process feedstocks. Part two covers the hydrolysis (saccharification) processes applicable to pretreated feedstocks. This includes both acid and enzymatic approaches and also importantly covers the development of particular enzymes to improve this conversion step. This coverage is extended in Part three, with chapters reviewing integrated hydrolysis and fermentation processes, and fermentation and co-fermentation challenges of lignocellulose-derived sugars, as well as separation and purification processes for bioalcohol extraction. Part four examines the analysis, monitoring and modelling approaches relating to process and quality control in the pretreatment, hydrolysis and fermentation steps of lignocellulose-to-bioalcohol production. Finally, Part five discusses the life-cycle assessment of lignocellulose-to-bioalcohol production, as well as the production of valuable chemicals and longer-chain alcohols from lignocellulosic biomass. With its distinguished international team of contributors, Bioalcohol production is a standard reference for fuel engineers, industrial chemists and biochemists, plant scientists and researchers in this area. Provides an overview of the life-cycle assessment of lignocelluloses-to-bioalcohol production Reviews the key features and processes involved in the pre-treatment and fractionation of lignocellulosic biomass for bioalcohol production Examines the analysis, monitoring and modelling approaches relating to process and quality control in pre-treatment, hydrolysis and fermentation

## Biofuels for Fuel Cells

## Renewable Energy from Biomass Fermentation

[IWA Publishing](#) This book has a clear orientation towards making p

## Fischer-Tropsch Technology

[Elsevier](#) Fischer-Tropsch Technology is a unique book for its state-of-the-art approach to Fischer Tropsch (FT) technology. This book provides an explanation of the basic principles and terminology that are required to understand the application of FT technology. It also contains comprehensive references to patents and previous publications. As the first publication to focus on theory and application, it is a contemporary reference source for students studying chemistry and chemical engineering. Researchers and engineers active in the development of FT technology will also find this book an invaluable source of information. \* Is the first publication to cover the theory and application for modern Fischer Tropsch technology \* Contains comprehensive knowledge on all aspects relevant to the application of Fischer Tropsch technology \* No other publication looks at past, present and future applications

## Applied Social Psychology

[Prentice Hall](#) Widely adopted for its broad coverage, clear writing, empirical base, and interdisciplinary focus -- this book examines many of the ways in which social psychology has been and is being used to solve real-world problems. Introduces each of the major research methodologies used by social psychologists -- Survey Research, Experiments, Correlational Research, Quasi-Experimental Studies, and Evaluation Research -- and details its use in real-life studies. Explores, in detail, the eight most heavily researched areas of the field": Educational Settings, Diversity Issues, Organizational Settings, Environmental Issues, Health and Health Care, Mass Communication, Consumer Issues, and Legal Issues.

## Scripts & Strategies in Hypnotherapy

## The Complete Works

[Crown House Publishing](#) Scripts and Strategies in Hypnotherapy Volumes 1 and 2 have been combined to create the single most comprehensive source of scripts and strategies that can be used by hypnotherapists of all levels of experience to build a successful framework for any therapy session. It covers inductions, deepeners and actual scripts for a wide range of problems from nail-biting to insomnia, sports performance to past life recall, pain management to resolving sexual problems. There is a particularly comprehensive section on smoking cessation. All scripts can be used as they stand or adapted for specific situations. "Provides an imaginative source of scripts covering the most commonly met cases. For the newly qualified therapist it is a useful addition and for the more experienced it is a source of inspiration." - European Journal of Clinical Hypnosis

## Meditation practices for health state of the research

[DIANE Publishing](#)

# Gaceta de Madrid

## Energy

### Production, Conversion, Storage, Conservation, and Coupling

**Springer** Expanding on the first edition, 'Energy: Production, Conversion, Storage, Conservation, and Coupling (2nd Ed.)' provides readers with a practical understanding of the major aspects of energy. It includes extended chapters with revised data and additional practice problems as well as a new chapter examining sustainability and sustainable energy technologies. Like the first edition, it also explores topics such as energy production, conservation of energy, energy storage and energy coupling. Written for students across a range of engineering and science disciplines, it provides a comprehensive study guide. It is particularly suitable for courses in energy technology, sustainable energy technologies and energy conversion & management, and offers an ideal reference text for students, engineers, energy researchers and industry professionals. \* Presents a clear introduction to the basic properties, forms and sources of energy \* Includes a range of supporting figures, tables and thermodynamic diagrams \* Provides course instructors with a solution manual for practice problems

## Pediatric Hematopoietic Stem Cell Transplantation

**CRC Press** Hematopoietic stem cell transplantation (HSCT) is currently utilized as a treatment option for a variety of life-threatening conditions affecting children and young adults including leukemia, lymphoma, neuroblastoma, brain tumors, inherited immune deficiency syndromes, blood disorders, and inherited metabolic diseases. This expertly written reference provides current information on methods and outcomes in a wide range of pediatric diseases, using a variety of HSCT approaches. It guides the pediatric professional in the proper execution and understanding of HSCT, and provides illustrative discussions of the hematopoietic and immune systems, clear outlines of current chemotherapy regimens, and expert guidance on each phase of stem cell transplantation and management, including patient evaluation and recovery.

## Environmental and Natural Resources Engineering

**Springer Nature** This volume has been designed to serve as a natural resources engineering reference book as well as a supplemental textbook. This volume is part of the Handbook of Environmental Engineering series, an incredible collection of methodologies that study the effects of resources and wastes in their three basic forms: gas, solid, and liquid. It complements two other books in the series including "Natural Resources and Control Processes" and "Advances in Natural Resources Management". Together they serve as a basis for advanced study or specialized investigation of the theory and analysis of various natural resources systems. This book covers many aspects of resources conservation, treatment, recycling, and education including agricultural, industrial, municipal and natural sources. The purpose of this book is to thoroughly prepare the reader for understanding the available resources, protection, treatment and control methods, such as bee protection, water reclamation, environmental conservation, biological and natural processes, endocrine disruptor removal, thermal pollution control, thermal energy reuse, lake restoration, industrial waste treatment, agricultural waste treatment, pest and vector control, and environmental engineering education. The chapters provide information on some of the most innovative and ground-breaking advances in environmental and natural resources engineering from a panel of esteemed experts.

## The Lymphomas

**Saunders** Edited and written by world authorities, this text encompasses all aspects of Hodgkin's disease, non-Hodgkin's lymphomas, and related disorders. Designed to be the "Bible" for both clinicians and scientists who deal with lymphoma, the book is packed with useful summary tables and abundant illustrations and translates cutting-edge discoveries into state-of-the-art management guidelines. The preeminent names in research and practice bring together today's entire spectrum of knowledge--from epidemiology, classification and prognosis through diagnosis and therapy, including the latest scientific advances, such as the impact of molecular biologic and genetic discoveries and new biologic markers. Covers molecular biology bone marrow transplantation lymphoma in AIDS and Hodgkins disease. Provides in-depth coverage of the underlying biology of the disease as well as etiology, pathology, diagnosis, and treatment. Discusses advances in the treatment of diseases including radiotherapy, radiolabeled monoclonal antibodies, treatment of cutaneous lymphoma, and metastatic disease. Contains precise clinical how-tos for managing bone marrow transplantation and diseases that resemble lymphomas. Includes the recently codified new WHO classification of all lymphoid entities. Offers new and updated information on the biology and recategorization (morphologic, clinical, genotypic/immunophenotypic) of distinct lymphoma entities.

## Exploiting Wastes in Concrete

### Proceedings of the International Seminar Held at the University of Dundee, Scotland, UK on 7 September 1999

Thomas Telford Concrete will be the key material for mankind to create the built environment of the next millennium. The requirements of this infrastructure will be both demanding, in terms of technical performance and economy, and yet be greatly varied, from architectural masterpieces to the simplest of utilities. Exploiting wastes in concrete forms the Proceedings of the one day International Seminar held during the Congress, Creating with concrete, 6-10 September 1999, organised by the concrete technology unit, University of Dundee.

## Stress and Emotion

### A New Synthesis

Springer Publishing Company This volume is a sequel to the landmark work that established an exciting new field of study, **Stress, Appraisal and Coping** (Lazarus and Folkman, 1984). The author now explores the newest trends in research and theory, focusing on the rationale for a cognitive-mediational approach to stress and emotions. He makes clear distinctions between social stress, physiological stress, and psychological stress. By integrating both stress and emotion into one theoretical framework, with appraisal and coping as its basis, this book takes a narrative approach to both theory and research. Lazarus concludes with a look at stress and health, with a specific focus on new developments in infectious diseases, the role of the nervous system, and his view of recent changes in psychotherapy. For all upper division psychology majors, graduate students, academics, and professionals in related fields

## Cancer Activism

### Gender, Media, and Public Policy

University of Illinois Press The first comparison of the breast cancer and the prostate cancer movements **Cancer Activism** explores the interplay between advocacy, the media, and public perception through an analysis of breast cancer and prostate cancer activist groups over a nearly twenty-year period. Despite both diseases having nearly identical mortality and morbidity rates, Karen M. Kedrowski and Marilyn Stine Sarow present evidence from more than 4,200 news articles to show that the different groups have had markedly different impacts. They trace the rise of each movement from its beginning and explore how discussions about the diseases appeared on media, public, and government agendas. In an important exception to the feminist tenet that women as a group hold less power than men, Kedrowski and Sarow demonstrate that the breast cancer movement is not only larger and better organized than the prostate cancer movement, it is also far more successful at shaping media coverage, public opinion, and government policy.

## Scale Construction and Psychometrics for Social and Personality Psychology

SAGE Publications Ltd **Electronic Inspection Copy available for instructors here** Providing conceptual and practical foundations in scale construction and psychometrics for producers and consumers of social/personality research, this guide covers basic principles, practices, and processes in scale construction, scale evaluation, scale use, and interpretation of research results in the context of psychological measurement. It explains fundamental concepts and methods related to dimensionality, reliability, and validity. In addition, it provides relatively non-technical introductions to special topics and advanced psychometric perspectives such as Confirmatory Factor Analysis, Generalizability Theory, and Item Response Theory. The SAGE Library in Social and Personality Psychology Methods provides students and researchers with an understanding of the methods and techniques essential to conducting cutting-edge research. Each volume within the Library explains a specific topic and has been written by an active scholar (or scholars) with expertise in that particular methodological domain. Assuming no prior knowledge of the topic, the volumes are clear and accessible for all readers. In each volume, a topic is introduced, applications are discussed, and readers are led step by step through worked examples. In addition, advice about how to interpret and prepare results for publication are presented.

# Microbial-mediated Induced Systemic Resistance in Plants

**Springer** With a focus on food safety, this book highlights the importance of microbes in sustainable agriculture. Plants, sessile organisms that are considered as primary producers in the ecosystem and communicate with above- and below-ground communities that consist of microbes, insects, and other vertebrate and invertebrate animals, are subjected to various kinds of stress. Broadly speaking, these can be subdivided into abiotic and biotic stresses. Plants have evolved to develop elaborate mechanisms for coping with and adapting to the environmental stresses. Among other stresses, habitat-imposed biotic stress is one serious condition causing major problems for crop productivity. Most plants employ plant-growth-promoting microorganisms (PGPMs) to combat and protect themselves from stresses and also for better growth. PGPMs are bacteria associated with plant roots and they augment plant productivity and immunity. They are also defined as root-colonizing bacteria that have beneficial effects on plant growth and development. Remarkably, PGPMs including mycorrhizae, rhizobia, and rhizobacteria (*Acinetobacter*, *Agrobacterium*, *Arthrobacter*, *Azospirillum*, *Bacillus*, *Bradyrhizobium*, *Frankia*, *Pseudomonas*, *Rhizobium*, *Serratia*, *Thiobacillus*) form associations with plant roots and can promote plant growth by increasing plants' access to soil minerals and protecting them against pathogens. To combat the pathogens causing different diseases and other biotic stresses, PGPMs produce a higher level of resistance in addition to plants' indigenous immune systems in the form of induced systemic resistance (ISR). The ISR elicited by PGPMs has suppressed plant diseases caused by a range of pathogens in both the greenhouse and field. As such, the role of these microbes can no longer be ignored for sustainable agriculture. Today, PGPMs are also utilized in the form of bio-fertilizers to increase plant productivity. However, the use of PGPMs requires a precise understanding of the interactions between plants and microbes, between microbes and microbiota, and how biotic factors influence these relationships. Consequently, continued research is needed to develop new approaches to boost the efficiency of PGPMs and to understand the ecological, genetic and biochemical relationships in their habitat. The book focuses on recent research concerning interactions between PGPMs and plants under biotic stress. It addresses key concerns such as - 1. The response of benign microbes that benefit plants under biotic stress 2. The physiological changes incurred in plants under harsh conditions 3. The role of microbial determinants in promoting plant growth under biotic stress The book focuses on a range of aspects related to PGPMs such as their mode of action, priming of plant defence and plant growth in disease challenged crops, multifunctional bio-fertilizers, PGPM-mediated disease suppression, and the effect of PGPMs on secondary metabolites etc. The book will be a valuable asset to researchers and professionals working in the area of microbial-mediated support of plants under biotic stress.

# Pediatric Integrative Medicine: An Emerging Field of Pediatrics

**MDPI** This book is a printed edition of the Special Issue "Pediatric Integrative Medicine: An Emerging Field of Pediatrics" that was published in *Children*

# Plastics Additives Handbook

## Stabilizers, Processing Aids, Plasticizers, Fillers, Reinforcements, Colorants for Thermoplastics

**Oxford University Press, USA** A new edition of the bestselling reference for practitioners and R & D scientists in the plastics producing and processing industry, this book features a fully updated listing of trade names and suppliers at the end of each chapter. Scientific principles, processing and applications of various additives are summarized, providing an overview of the state of the art and future trends. In addition to the subjects mentioned in the title, the work presents principles of additive compounding, and points out health and safety concerns associated with processing.

# Hypnosis and Stress

## A Guide for Clinicians

**John Wiley & Sons** Hypnosis and Stress provides a practical approach to using hypnosis with patients suffering from a wide range of stress related problems. Innovative in its approach, this book integrates traditional approaches in hypnosis with Ericksonian and Rossi's approach to hypnotherapy. The most up-to-date research is discussed and a flexible, 'hands-on' framework is provided for practicing hypnotherapy, including: detailed guidelines on conducting clinical interviews examples of preparing the patient for hypnosis templates of clinical 'scripts' for use in sessions solutions for dealing with catharsis discussion of inter-professional collaboration. Interventions are suggested for a

wide range of stress problems in both adults and children, including anxiety, sexual dysfunctions, sleeping problems, pain and other psychosomatic conditions. This practical guide provides a useful introduction to hypnotherapy for professionals such as counsellors, psychotherapists, psychiatrists, psychologists and physicians. The breadth of information included ensures it will also appeal to the more experienced clinician.

## The Biofuels Handbook

Royal Society of Chemistry Petroleum-based fuels are well-established products that have served industry and consumers for more than one hundred years. However petroleum, once considered inexhaustible, is now being depleted at a rapid rate. As the amount of available petroleum decreases, the need for alternative technologies to produce liquid fuels that could potentially help prolong the liquid fuels culture and mitigate the forthcoming effects of the shortage of transportation fuels is being sought. The dynamics are now coming into place for the establishment of a synthetic fuels industry; the processes for recovery of raw materials and processing options have to change to increase the efficiency of oil production and it is up to various levels of government not only to promote the establishment of such an industry but to recognise the need for available and variable technology. This timely handbook is written to assist the reader in understanding the options that available for the production of synthetic fuel from biological sources. Each chapter contains tables of the chemical and physical properties of the fuels and fuel sources. It is essential that the properties of such materials be presented in order to assist the researcher to understand the nature of the feedstocks as well as the nature of the products. If a product cannot be employed for its hope-for-use, it is not a desirable product and must be changed accordingly. Such plans can only be made when the properties of the original product are understood. The fuels considered include conventional and unconventional fuel sources; the production and properties of fuels from biomass, crops, wood, domestic and industrial waste and landfill gas.

## The Blackwell Companion to Sociology of Religion

John Wiley & Sons The Blackwell Companion to Sociology of Religion is presented in three comprehensive parts. Written by a range of outstanding academics, the volume explores the current status of the sociology of religion, and how it might look in future. Explores the current status of the sociology of religion, and how it might look at the beginning of the next millennium. Traces the boundaries between sociology and other closely related disciplines, such as theology and social anthropology. Edited by one of the best known and most widely respected sociologists of religion Accessibly presented in three comprehensive parts.

## Accelerating Health Care Transformation with Lean and Innovation

## The Virginia Mason Experience

CRC Press Virginia Mason Medical Center (VMMC) was one of the first health care organizations to implement Lean and its methodologies. Other organizations have followed VMMC's lead, but this world class organization still leads in the utilization of innovative Lean tools. Accelerating Health Care Transformation with Lean and Innovation: The Virginia Mason Experience describes how VMMC has systematically integrated innovative structures, methods, and cultural practices into its implementation of Lean. Describing how your organization can create a strategy and build a culture of innovation and learning, it supplies concrete examples that show—not just conceptually, but through VMMC's actual experiences—how Lean and innovation can work hand-in-hand to incrementally improve and radically transform your value streams. Explaining how to use the voices and experiences of patients and their families to drive improvement and innovation in new directions, the book supplies a clear understanding of how Lean can help you achieve your goals in today's increasingly demanding marketplace.

## Protecting Children Online?

## Cyberbullying Policies of Social Media Companies

MIT Press A critical examination of efforts by social media companies—including Facebook, Twitter, Snapchat, and Instagram—to rein in cyberbullying by young users. High-profile cyberbullying cases often trigger exaggerated public concern about children's use of social media. Large companies like Facebook respond by pointing to their existing anti-bullying mechanisms or coordinate with nongovernmental organizations to organize anti-cyberbullying efforts. Do these attempts at self-regulation work? In this book, Tijana Milosevic examines the effectiveness of efforts by social media companies—including Facebook, Twitter, YouTube, Snapchat, and Instagram—to rein in cyberbullying by young users. Milosevic analyzes the anti-bullying policies of fourteen major social media companies, as recorded in companies' corporate documents, draws on interviews with company representatives and e-safety experts, and details the roles of nongovernmental organizations examining their ability to provide critical independent advice. She draws attention to lack of transparency in how companies handle bullying cases, emphasizing the need for a continuous independent evaluation of effectiveness of companies' mechanisms, especially from children's perspective. Milosevic

argues that cyberbullying should be viewed in the context of children's rights and as part of the larger social problem of the culture of humiliation. Milosevic looks into five digital bullying cases related to suicides, examining the pressures on the social media companies involved, the nature of the public discussion, and subsequent government regulation that did not necessarily address the problem in a way that benefits children. She emphasizes the need not only for protection but also for participation and empowerment—for finding a way to protect the vulnerable while ensuring the child's right to participate in digital spaces.

## Stem Cells

### From Bench to Bedside

World Scientific Stem cell biology has drawn tremendous interest in recent years as it promises cures for a variety of incurable diseases. This book deals with the basic and clinical aspects of stem cell research and involves work on the full spectrum of stem cells isolated today. It also covers the conversion of stem cell types into a variety of useful tissues which may be used in the future for transplantation therapy. It is thus aimed at undergraduates, postgraduates, scientists, embryologists, doctors, tissue engineers and anyone who wishes to gain some insight into stem cell biology. This book is important as it is comprehensive and covers all aspects of stem cell biology, from basic research to clinical applications. It will have 33 chapters written by renowned stem cell scientists worldwide. It will be up-to-date and all the chapters include self-explanatory figures, color photographs, graphics and tables. It will be easy to read and give the reader a complete understanding and state of the art of the exciting science and its applications.