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Governance of Seas and Oceans André Monaco 2015-11-04 The governance of seas and oceans, defined as all forms of social participation in decision-making on the marine environment, is here mainly from a legal perspective view with the Law of the Sea as a determinant. The book presents the main aspects of maritime law and the

history of its construction. The exploitation of living resources, minerals and marine energy reserves, maritime transport, marine ecosystems disturbance by a vessel traffic constantly increasing, are included. Biofuel Cropping Systems Hans Langeveld 2014-01-21 Choosing appropriate practices and policies for biofuel production requires an

understanding of how soils, climate, farm types, infrastructure, markets and social organisation affect the establishment and performance of these crops. The book highlights land use dynamics, cultivation practices related to conversion and wider impacts. It explores how biofuel production chain development is steered by emerging technologies and management practices and how both can be influenced by effective policies designed to encourage sustainable biofuel production. The book highlights major biofuel production chains including: cane cultivation in Brazil corn ethanol in the USA wheat and rapeseed in Europe oil palm in the Far East cane in Asia and Africa SRC and other lignocellulosic crops. In each case the development, cropping systems and impacts are discussed, system dynamics are shown and lessons drawn for the way things could or should change. Biofuel Cropping Systems is a vital resource

for all those who want to understand the way biofuels are produced and how they impact other elements of society and especially how improvements can be made. It is a handbook for students, biofuel producers, researchers and policymakers in energy and agriculture.

Ich hasse dich - verlass mich nicht

Jerold J. Kreisman 2012-06-18
Menschen mit einer Borderline-Persönlichkeit leiden unter extremen Stimmungsschwankungen und der ständigen Angst, verlassen zu werden. Die überarbeitete und erweiterte Neuausgabe dieses Standardwerks enthält neueste Forschungsergebnisse und Therapieansätze sowie aktualisierte Zahlen. Betroffene, Angehörige, Ärzte und Therapeuten erhalten hilfreiche Unterstützung.

Cellulose and Cellulose Derivatives in the Food Industry

Tanja Wuestenberg 2014-08-05
Cellulose and its derivatives can be found in many forms in nature and is a valuable

material for all manner of applications in industry. This book is authored by an expert with many years of experience as an application engineer at renowned cellulose processing companies in the food industry. All the conventional and latest knowledge available on cellulose and its derivatives is presented. The necessary details are elucidated from a theoretical and practical viewpoint, while retaining the focus on food applications. This book is an essential source of information and includes recommendations and instructions of a general nature to assist readers in the exploration of possible applications of cellulose and its derivatives, as well as providing food for thought for the generation of new ideas for product development. Topics include gelling and rheological properties, synergistic effects with other hydrocolloids, as well as nutritional and legal

aspects. The resulting compilation covers all the information and advice needed for the successful development, implementation, and handling of cellulose-containing products.

Pflege-Report 2019 Klaus Jacobs
2019-08-06 Der Pflege-Report, der in Buchform und als Open-Access-Publikation erscheint, nimmt jährlich relevante Themen der Versorgung von Pflegebedürftigen unter die Lupe. Schwerpunkt des Jahres 2019 ist die Frage „Mehr Personal in der Langzeitpflege – aber woher?“ Es werden unterschiedliche Maßnahmen analysiert, die ein quantitativ wie qualitativ ausreichendes Angebot an Pflegepersonal sicherstellen sollen. Die Beiträge beleuchten Ursachen der Personalnot, zeigen Lösungswege auf und diskutieren hierbei bestehende Herausforderungen und zu erwartende Auswirkungen. Zudem präsentiert der Pflege-Report empirische Analysen zur Entwicklung der Pflegebedürftigkeit.

in Deutschland sowie zur Inanspruchnahme der Pflegeinfrastruktur und verschiedener Pflegeformen. Ein besonderer Fokus gilt der gesundheitlichen Versorgung in der ambulanten Pflege und im Pflegeheim.

Plastics and Microplastics: A

Reference Handbook David E. Newton
2021-07-31 Plastic plays a vital role in today's world but has become increasingly problematic. *Plastics and Microplastics: A Reference Handbook* discusses the history and evolution of plastic and its many uses, both in the United States and around the world. Beginning with a history of plastic—from the first scientific discovery of the material to its diversity of forms and uses in the present day—*Plastics and Microplastics: A Reference Handbook* discusses the history and evolution of plastic and its many uses, both in the United States and around the world. Importantly, it delves into

the problems and controversies concerning plastic and microplastics, such as the pollution of oceans, rivers, and streams; its exceptionally long shelf life; its contribution to air pollution; and ingestion of microplastics by marine life. One of the most valuable aspects of the book is its survey of the history of plastics and microplastics conducted in a manner that helps readers to identify key issues to address. Moreover, it discusses both implemented and proposed solutions. A perspectives chapter includes a broad range of voices, allowing crucial, diverse perspectives to round out the author's expertise. Provides readers with the basic background they need about plastics and microplastics in order to understand current problems. Includes additional readings, a comprehensive chronology, a glossary, and other features to aid students' understanding of current issues and

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guide them in designing and conducting their own research Offers ideas for additional research from a list of important individuals and organizations Rounds out the author's expertise in perspectives essays that show readers a diversity of viewpoints

Climate Change 2014: Mitigation of Climate Change Intergovernmental Panel on Climate Change 2015-01-26 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

Sensor Technologies Michael J. McGrath 2014-01-23 Sensor Technologies: Healthcare, Wellness and Environmental Applications

explores the key aspects of sensor technologies, covering wired, wireless, and discrete sensors for the specific application domains of healthcare, wellness and environmental sensing. It discusses the social, regulatory, and design considerations specific to these domains. The book provides an application-based approach using real-world examples to illustrate the application of sensor technologies in a practical and experiential manner. The book guides the reader from the formulation of the research question, through the design and validation process, to the deployment and management phase of sensor applications. The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs. "Sensor Technologies: Healthcare, Wellness and Environmental Applications provides an extensive overview of

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sensing technologies and their applications in healthcare, wellness, and environmental monitoring. From sensor hardware to system applications and case studies, this book gives readers an in-depth understanding of the technologies and how they can be applied. I would highly recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications." Dr. Benny Lo Lecturer, The Hamlyn Centre, Imperial College of London "This timely addition to the literature on sensors covers the broad complexity of sensing, sensor types, and the vast range of existing and emerging applications in a very clearly written and accessible manner. It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud-based 'big data' analytics to provide a host of new applications that will impact directly on the

individual in ways we cannot fully predict at present. It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of 'big data' down to the personal level of individual life and health." Dermot Diamond Director, National Centre for Sensor Research, Principal Investigator, CLARITY Centre for Sensor Web Technologies, Dublin City University "Sensor Technologies: Healthcare, Wellness and Environmental Applications takes the reader on an end-to-end journey of sensor technologies, covering the fundamentals from an engineering perspective, introducing how the data gleaned can be both processed and visualized, in addition to offering exemplar case studies in a number of application domains. It is a must-read for those studying any undergraduate course that involves sensor technologies. It also provides a thorough foundation for those

involved in the research and development of applied sensor systems. I highly recommend it to any engineer who wishes to broaden their knowledge in this area!" Chris Nugent Professor of Biomedical Engineering, University of Ulster

Biotechnology: Recent Trends and Emerging Dimensions Atul Bhargava

2017-11-22 Biotechnology is a multidisciplinary field encompassing microbiology, biochemistry, genetics, molecular biology, chemistry, immunology, cell and tissue culture physiology. This book describes the recent developments in these areas. Current research topics such as Quorum sensing, Integrins, Phytomining are discussed, which would serve as an excellent reference work for both academicians and researchers in the field.

Governance of the Illegal Trade in E-Waste and Tropical Timber Lieselot

Bisschop 2016-03-09 This book responds to the call for more

research on transnational environmental crime and its governance by investigating the illegal trade in electronic waste (e-waste) and tropical timber, major forms of transnational environmental crime. The book is based on a qualitative multi-method research combining document analysis, interviews with key informants and field visits. Bisschop focuses on the flows that pass through the research setting of the Port of Antwerp (Belgium) and those between Europe and West and Central Africa. The study examines the emergence and social organization of these transnational environmental flows, illustrating that although profit or lure play a very important role, a range of factors on individual, organizational and societal levels together provide the motivations and opportunities. Building on these insights, the book addresses the governance of these two cases.

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responsive regulatory pyramid and networked governance are used as theoretical frameworks for this analysis. This book is essential reading for scholars and academics interested in transnational environmental crime and corporate crime, as well as governance studies.

nano Andre Gaszo 2007-07-28

Nanotechnologie gilt als Schlüsseltechnologie des 21. Jahrhunderts mit enormem wirtschaftlichem Potenzial und unbegrenzten Möglichkeiten. Viele Produkte sind bereits im Handel: Reinigungs- und Nahrungsergänzungsmittel, Kosmetika, Sportgeräte. Bisher ist nicht viel über mögliche unerwünschte Wirkungen von Nanopartikeln bekannt. Namhafte Autoren verschiedener Disziplinen geben hierzu den umfassenden Überblick zum aktuellen Stand der Forschung, zu Chancen und Risiken. Physikalisch-chemische Grundlagen, Ethik, Risikokommunikation,

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Umweltschutz, Gesundheit, Regulations- und Forschungsbedarf sowie wirtschaftliche und gesellschaftliche Aspekte.

Techno-ökonomischer Vergleich des Einsatzes von Strom, SNG und FT-Diesel aus Waldrestholz im Pkw-Bereich Hurtig, Oliver 2014-03-27
Lewis Mumford and Patrick Geddes

Frank G. Novak Jr. 2014-04-23 First published in 1995. Routledge is an imprint of Taylor & Francis, an informa company.

CONCUR 2014 - Concurrency Theory

Paolo Baldan 2014-08-23 This book constitutes the refereed proceedings of the 25th International Conference on Concurrency Theory, CONCUR 2014, held in Rome, Italy in September 2014. The 35 revised full papers presented together with 5 invited talks were carefully reviewed and selected from 124 submissions. The focus of the conference is on the following topics: process calculi, model checking and abstraction.

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synthesis, quantitative models, automata and multithreading, complexity, process calculi and types, categories, graphs and quantum systems, automata and time, and games.

Industrial Scale Suspension Culture of Living Cells

Hans-Peter Meyer
2014-08-04 The submersed cultivation of organisms in sterile containments or fermenters has become the standard manufacturing procedure, and will remain the gold standard for some time to come. This book thus addresses submersed cell culture and fermentation and its importance for the manufacturing industry. It goes beyond expression systems and integrally investigates all those factors relevant for manufacturing using suspension cultures. In so doing, the contributions cover all industrial cultivation methods in a comprehensive and comparative manner, with most of the authors coming from the industry itself. Depending on the

maturity of the technology, the chapters address in turn the expression system, basic process design, key factors affecting process economics, plant and bioreactor design, and regulatory aspects.

Material Revolution 2 Sascha Peters
2014-02-24 Following the huge success of Material Revolution, this second volume addresses the rapid development of material research and presents materials new to the market since 2010. The significance of sustainable and intelligent materials in design and architecture has increased enormously over the last two years. Numerous new products have been introduced to the market and designers' thirst for knowledge about the sustainability of new material is as strong as ever, making a sequel to Material Revolution necessary. The new volume contains a similar system of classification but covers a completely different range of materials. There is a chapter

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dedicated solely to the criteria and factors of sustainable product design, as well as to innovative projects by designers and architects that work with new materials and technologies.

Biopolymers for Biomedical and Biotechnological Applications Bernd

H. A. Rehm 2021-01-26 Provides insight into biopolymers, their physicochemical properties, and their biomedical and biotechnological applications This comprehensive book is a one-stop reference for the production, modifications, and assessment of biopolymers. It highlights the technical and methodological advancements in introducing biopolymers, their study, and promoted applications.

"Biopolymers for Biomedical and Biotechnological Applications" begins with a general overview of biopolymers, properties, and biocompatibility. It then provides in-depth information in three

dedicated sections: Biopolymers through Bioengineering and Biotechnology Venues; Polymeric Biomaterials with Wide Applications; and Biopolymers for Specific Applications. Chapters cover: advances in biocompatibility; advanced microbial polysaccharides; microbial cell factories for biomanufacturing of polysaccharides; exploitation of exopolysaccharides from lactic acid bacteria; and the new biopolymer for biomedical application called nanocellulose. Advances in mucin biopolymer research are presented, along with those in the synthesis of fibrous proteins and their applications. The book looks at microbial polyhydroxyalkanoates (PHAs), as well as natural and synthetic biopolymers in drug delivery and tissue engineering. It finishes with a chapter on the current state and applications of, and future trends in, biopolymers in regenerative medicine. * Offens P

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complete and thorough treatment of biopolymers from synthesis strategies and physiochemical properties to applications in industrial and medical biotechnology * Discusses the most attracted biopolymers with wide and specific applications * Takes a systematic approach to the field which allows readers to grasp and implement strategies for biomedical and biotechnological applications "Biopolymers for Biomedical and Biotechnological Applications" appeals to biotechnologists, bioengineers, and polymer chemists, as well as to those working in the biotechnological industry and institutes.

Built to Grow - Blending architecture and biology Barbara Imhof 2016-01-15

Built to Grow investigates patterns of growth and dynamics in nature with the aim of creating a new "living architecture" that can be applied to architectonic designs. It examines biological processes to identify

basic principles of growth and translate them into exemplary architectonic ideas and visions. The project brings together experts from the fields of architecture, biology, art, mechatronics, and robotics.

Agent Environments for Multi-Agent Systems IV Danny Weyns 2015-11-26

This book constitutes the thoroughly refereed post-workshop proceedings of the 4th International Workshop on Environments for Multiagent Systems, E4MAS 2014 - 10 years later, held in Paris, France, in May 2014 as an associated event of AAMAS 2014, the 13th International Conference on Autonomous Agents and Multiagent Systems. The 6 revised full papers presented together with 1 roadmap paper and 7 invited papers were carefully reviewed and selected from 14 initial submissions. The papers are organized in topical sections on connecting agents, environments, and humans; environments for complex and stigmergic systems; virtual and

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simulated environments; and open agent environments and interoperability.

Natural Products Analysis Vladimir Havlicek 2014-10-13 This book highlights analytical chemistry instrumentation and practices applied to the analysis of natural products and their complex mixtures, describing techniques for isolating and characterizing natural products.

- Applies analytical techniques to natural products research - an area of critical importance to drug discovery
- Offers a one-stop shop for most analytical methods: x-ray diffraction, NMR analysis, mass spectrometry, and chemical genetics
- Includes coverage of natural products basics and highlights antibacterial research, particularly important as efforts to combat drug resistance gain prominence
- Covers instrumental techniques with enough detail for both current practitioners and beginning researchers

Proceedings of 7th Euro Biosensors & Bioelectronics Congress 2017
ConferenceSeries July 10-11, 2017
Berlin, Germany Key Topics :
Biosensors & Biomarkers, Types of Biosensors, Bioinstrumentation & Equipments, Bio-MEMS/NEMS, Biosensor Applications, Biosensing Technologies, Nanotechnology in Biosensors, Transducers in Biosensors, Bioelectronics, Biochips & Nucleic Acid Sensors, Biosensors for Imaging, Photonic Sensor Technologies, Environmental Biosensors, Biosensors & Global Market, Enzymatic Biosensors, *Planctomycetes-Verrucomicrobia-Chlamydiae Bacterial Superphylum: New Model Organisms for Evolutionary Cell Biology, 2nd Edition* Laura van Niftrik 2019-10-02 The Planctomycetes, Verrucomicrobia, Chlamydiae (PVC) and related phyla have recently emerged as fascinating subjects for research in evolutionary cell biology, ecology, biotechnology,

evolution and human health. This interest is prompted by particular characteristics observed in the PVC superphylum that are otherwise rarely observed in bacteria but are however still poorly described or understood, such as the presence of a complex endomembrane system, or compacted DNA throughout most of the cell cycle. Therefore, the members of the PVC superphylum represent an excellent example of the value of studying bacteria other than 'classical' models.

Bio-Clean Energy Technologies: Volume

1 Pankaj Chowdhary 2022-05-30 This book discusses the latest advancements in the area of biofuel development. It covers extensive information regarding different aspects and types of biofuels. The book provides a road map of the various different kinds of biofuels available for consideration, including both conventional and advanced algal based biofuels,

replete with the economic analysis of their production and implementation. The contributors are experienced professors, academicians and scientists associated with renowned laboratories and institutes in India and abroad. This book is of interest to teachers, researchers, biofuel scientists, capacity builders and policymakers. Also the book serves as additional reading material for undergraduate and graduate students. National and international scientists, policy makers will also find this to be a useful read.

Pulp and Paper Industry Pratima Bajpai 2016-09-27 Pulp and Paper Industry: Nanotechnology in Forest Industry covers the latest scientific and technical advances in the area of nanotechnology in forest sector providing information on recent developments, structure and properties, raw materials and methods for the production of nanocellulose along with their characterization and

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application in various industries with an analysis of both challenges and opportunities with respect to environmentally sound technologies and consumer concerns such as health effects. Also identifies the key barriers to innovation, and the breakthroughs required to make nanocellulosic materials viable alternatives in the important sectors. Thorough review of the evolution and development of different types of nanocelluloses In-depth coverage of preparation and characterization of nanocellulose Use of nanocellulose materials in a wide range of applications Commercial and precommercial developments Challenges and opportunities of nanocellulose market Identifies the key barriers to innovation, and the breakthroughs required to make nanocellulosic materials viable alternatives in the important sectors

Smart Materials in Architektur, Innenarchitektur und Design Axel

Ritter 2007-01-01 Die Anwendung von Smart Materials in der Architektur ist ein innovatives, dynamisches Gebiet, in dem Forschung, Entwicklung und Anwendung im Bau fließend ineinander übergehen. Smart Materials mit ihren reversiblen Wechseleigenschaften reagieren auf Stimuli wie Licht, Temperatur und elektrisches Feld. Sie verändern sich dabei in Form, Farbe, Viskosität etc. Zu den faszinierendsten Entwicklungen gehören Formgedächtnis-Legierungen oder Phase Change Materials. Es lassen sich beispielsweise selbsttätig agierende kinetische Fassaden entwickeln oder auch Tapeten, die temperatur- und lichtabhängig Farbe und Muster verändern. Das Buch stellt einleitend die Entwicklung dieser Materialien sowie ihren Kontext in Architektur, Design und Kunst dar. Ein systematisch aufgebauter Überblick mit zahlreichen Details über Eigenschaften, Technologien

und Projekte wird anhand von rund zwanzig Materialgruppen gegeben.
WeBIOPATR2015 THE FIFTH INTERNATIONAL WeBIOPATR WORKSHOP & CONFERENCE PARTICULATE MATTER: RESEARCH AND MANAGEMENT Milena Jovašević-Stojanović 2017-10-10

New anti-infective strategies for treatment of tularemia Max Maurin 2014-11-21 *Francisella tularensis*, the causative agent of tularemia, is a paradigm among human pathogens. This Gram-negative bacterium has an intracellular lifestyle, which probably reflects an adaptation to its natural animal and protozoa reservoirs. This is one of the most infectious agents in humans and animals; only a few bacteria are needed to induce a severe infection in both types of hosts. The clinical presentation and severity of human tularemia varies according to the portal of entry of bacteria, the bacterial inoculum, the virulence of the infecting strain, and the immune

response of the host. Although most infections occur after direct inoculation of bacteria through the skin (through skin wounds or bites of arthropods), pneumonia due to inhalation of infected aerosols is the most feared of the clinical forms of the disease, particularly in the context of biological threat. Two subspecies are responsible for tularemia (subsp. *tularensis* and subsp. *holarctica*), and several clades have been described for each, which might be associated with changes in disease severity in humans. Tularemia is also more severe in people with an impaired immune response. No safe vaccine is currently available for prophylaxis of tularemia in humans. On the other hand, control of proliferation of *F. tularensis* in wildlife is not feasible. Thus, only the anti-infective agents are used for treatment and prophylaxis of human tularemia. The standard options

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include aminoglycosides (gentamicin), tetracyclines (eg, doxycycline) and fluoroquinolones (eg, ciprofloxacin). The selection of acquired resistance to these antibiotics in *F.*

tularensis, especially in the context of a biological threat, may quickly limit the therapeutic options. New prophylactic and therapeutic alternatives must be developed rapidly. The present Research Topic focuses on potential new strategies for treatment of tularemia, including the development and evaluation of new compounds having proper antibacterial activity, reducing the virulence of *F. tularensis* or enhancing the immune host response.

Neue Anwendungen der DNA-Analyse:

Chancen und Risiken Alexander Lang
2020-11-23 Die Analyse der Erbsubstanz DNA hat sich von einem aufwendigen Vorhaben der Grundlagenforschung zu einem weitverbreiteten Werkzeug in verschiedenen Bereichen gewandelt.

Dank Onlineangeboten sind genetische Tests heute für Konsumentinnen und Konsumenten auf einfache Weise zugänglich. Beliebt sind Tests zur Herkunfts- und Verwandtenforschung sowie solche, die zu Lifestylefragen Auskunft geben sollen, wie etwa zur optimalen Ernährung oder einem möglichst Erfolg versprechenden Training in Fitness und Sport. Dabei handelt es sich nicht um medizinische Untersuchungen im engeren Sinne; die Abgrenzung von medizinischen Tests ist allerdings schwierig. Aus DNA-Daten lassen sich auch Aussagen herleiten über äusserliche Merkmale wie Augen- und Haarfarbe. Diese Methode, das «DNA Phenotyping», kann Hinweise liefern bei der polizeilichen Ermittlungsarbeit. Die interdisziplinäre Studie untersucht Chancen und Risiken der DNA-Analyse in den erwähnten Bereichen. Sie erörtert die technisch-naturwissenschaftlichen Grundlagen, analysiert gesellschaftliche und

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rechtliche Aspekte und präsentiert Empfehlungen.

Beiträge zur Entscheidungsunterstützung bei der Kaskadennutzung von erneuerbaren Ressourcen Matthias Garbs 2018-10-30

In dieser Dissertation werden drei eigenständige Paper vorgestellt, die sich mit der Entscheidungsunterstützung bei der Kaskadennutzung von nachwachsenden Rohstoffen in unterschiedlichen wirtschaftlichen Bereichen beschäftigen. Die ersten zwei Paper untersuchen dabei finanzielle und ökologische Auswirkungen der Kaskadennutzung. Gegenstand der Untersuchung im ersten Paper ist die Kaskadennutzung in logistischen Netzwerken von Holzflüssen. Dagegen werden im zweiten Paper Wirtschaftsdüngertransporte aus viehrefleichen Regionen in vieharme Regionen untersucht. Hierbei besteht die Kaskadennutzung in der Nutzung des Wirtschaftsdüngers in einer

Biogasanlage zur Energiegewinnung vor der letztendlichen Ausbringung als Dünger. Das dritte Paper thematisiert unsichere Minimax-Probleme, die auch im Rahmen der Kaskadennutzung vorkommen können. Es untersucht mathematisch, welche strukturellen Eigenschaften das unsichere Minimax-Problem besitzt und wie dies der Entscheidungsunterstützung dient.

Ressourceneinsparpotenziale der „Vorbereitung zur Wiederverwendung“ von Elektro- und Elektronikaltgeräten

Nadja von Gries 2020-01-01 Elektro- und Elektronikaltgeräte zählen zu den am schnellsten wachsenden Abfallströmen in Europa. Reparatur und Wiederverwendung können durch eine Verlängerung der Produktnutzungsdauer dazu beitragen, dass weniger Abfall entsorgt werden muss und Ressourcen durch die Vermeidung von Neuproduktion eingespart werden. In der Europäischen Abfallrahmenrichtlinie (2008/98/EG) wird der „Vorbereitung

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zur Wiederverwendung“ ein hoher Stellenwert eingeräumt; die Abfallvermeidung hat, gefolgt von der „Vorbereitung zur Wiederverwendung“, eindeutig Priorität gegenüber dem Recycling. Die Abfallhierarchie verspricht zwar implizit ökologische Vorteile der „Vorbereitung zur Wiederverwendung“, allerdings wurden die institutionell-ökologischen Zusammenhänge des Konzepts in der Forschungsdebatte bislang vernachlässigt. Somit sind die tatsächlichen Ressourceneinsparpotenziale der „Vorbereitung zur Wiederverwendung“ noch weitgehend unerforscht. Vor diesem Hintergrund zielt das Dissertationsprojekt darauf ab, ein Verständnis dafür zu entwickeln, wie spezifische Kontexte (beispielsweise die rechtlichen Rahmenbedingungen, ökonomische oder informatorische Aspekte) die „Vorbereitung zur Wiederverwendung“ von Produkten aus der Ressourcenperspektive

beeinflussen. Dafür wurden die institutionell-ökologischen Zusammenhänge der „Vorbereitung zur Wiederverwendung“ integrativ betrachtet, und zwar mit Fokus auf ausgewählte Geräte – Flachbildmonitore (FlaMo's), Kaffeefiltermaschinen (KaFil's), Kaffeepadmaschinen (Ka-Pad's), Lautsprecherboxen (LauS) und Waschmaschinen (WaMa's) – und im Sinne einer vergleichenden Analyse von zwei abfallstrukturell-charakteristischen Regionen – Flandern und Nordrhein-Westfalen. Die interdisziplinäre Fragestellung der Arbeit erforderte die Anwendung qualitativer Methoden für die tiefgründige Untersuchung der „Vorbereitung zur Wiederverwendung“ in den verschiedenen institutionellen Systemen, aber auch quantitative Methoden im Hinblick auf die zahlenmäßige Bewertung der Ressourceneinsparpotenziale. Zentrale Datenerhebungsinstrumente

fallbeispielbezogene öffentliche Dokumente und Webseiten, die Analyse betriebsinterner Dokumentationen, Literaturlauswertungen, Stichprobenerhebungen, Beobachtungen und Experteninterviews.

Thanatia: The Destiny of the Earth's Mineral Resources Antonio Valero

Capilla 2014-08-18 Is Gaia becoming Thanatia, a resource exhausted planet? For how long can our high-tech society be sustained in the light of declining mineral ore grades, heavy dependence on unrecycled critical metals and accelerated material dispersion? These are all root causes of future disruptions that need to be addressed today. This book presents a cradle-to-cradle view of the Earth's abiotic resources through a novel and rigorous approach based on the Second Law of Thermodynamics: heat dissipates and materials deteriorate and disperse. Quality is irreversibly lost. This allows for the assessment

of such depletion and can be used to estimate the year where production of the main mineral commodities could reach its zenith. By postulating Thanatia, one acquires a sense of destiny and a concern for a unified global management of the planet's abiotic resource endowment. The book covers the core aspects of geology, geochemistry, mining, metallurgy, economics, the environment, thermodynamics and thermochemistry. It is supported by comprehensive databases related to mineral resources, including detailed compositions of the Earth's layers, thermochemical properties of over 300 substances, historical energy and mineral resource inventories, energy consumption and environmental impacts in the mining and metallurgical sector and world recycling rates of commodities. Contents: The Threads: Minerals, Economy and Thermodynamics: The Depletion of Non-Renewable Abiotic Resources

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versus Thermodynamic Accounting
From Thermodynamics to Economics and Ecology
Physical Geonomics: A Cradle-Grave-Cradle Approach for Mineral Depletion Assessment
Over the Rainbow: From Nature to Industry
The Geochemistry of the Earth
The Resources of the Earth
An Introduction to Mining and Metallurgy
Metallurgy of Key Minerals
Down the Rainbow: From Grave to Cradle
Thermodynamics of Mineral Resources
Thanatia and the Crepuscular Earth
Model
The Exergy of the Earth and Its Mineral Resources
The Exergy Replacement Costs of Mineral Wealth
The Exergy Evolution of Mineral Wealth
Tying the Rainbows: Towards a Rational Management of Resources
Recycling Solutions
The Challenge of Resource Depletion
The Principles of Resource Efficiency
Epilogue
Readership: Thermodynamicists, geologists, economists, policy makers, and mining, environmental and chemical engineers.
Keywords: Exergy; Mineral

Resources; Depletion; Hubbert Peak; Gibbs Free Energy; Mineralogical Composition of the Earth; Thermodynamics
Reviews: "This is an exhaustive treatment of the subject with numerous tables of the baseline data and discussions going from basic thermodynamics to economics and social sciences. It is an essential read for any scientist who is concerned with resource evaluation and how we can best manage these assets and continue to live on an Earth in which we appreciate the service provided by the resource and thus avoid Thanatia in defence of Gaia." John Ludden
Executive Director, British Geological Survey
" 'Thanatia' presents a refreshing way of analysing the run-down of our mineral inheritance ... To serious students of the resource problem the numerous tables in 'Thanatia' are useful because they are thought-provoking as much as for the numerical data. 'Thanatia' is a big

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book, with a wealth of data and background material on the minerals industry, representing many years of intensive investigation and analysis." Jane H Hodgkinson & Frank D Stacey CSIRO, Australia Authors of The Earth as a Cradle for Life "The unusual title of the book Thanatia (death in Greek) leads its readers to understand what sustainability really means and to quantify the problem of mineral depletion using both disciplines thermodynamics and economics. " Ph. Vieillard Director of Research C.N.R.S., Poitiers, France

Ambient Assisted Living Reiner Wichert 2017-03-07 In this book, leading authors in the field discuss the habitats of tomorrow. These habitats will be connected through autonomous and assistive systems, turning habitats into health resorts. This book discusses how assistance technologies enable a smooth transition from comfortable health

support to medical or nursing care. The contributions have been chosen and invited at the 9th AAL congress, Frankfurt.

Manikins for Textile Evaluation

Rajkishore Nayak 2017-06-15 Manikins for Textile Evaluation is a key resource for all those engaged in textile and apparel development and production, and for academics engaged in research into textile science and technology. Creating garments that work with the human form, both stationary and in motion, is a complex task that requires extensive testing and evaluation. Manikins allow for performance testing of textiles in a safe, controlled, and appropriate environment, and are a key element in developing new textile products. Everyday apparel needs to be assessed for comfort, sizing and fit, and ergonomics, while technical and protective garments require extensive safety and performance testing. Manikins therefore

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from simple representations of the human body to complex designs that simulate body temperature, sweating, and motion. Manikins are safe for use in hazardous testing environments, such as fire and flame protection, where wearer trials would be impossible. This book provides extensive coverage of manikin-based evaluation of protective, heat and flame resistant, medical, and automotive textile applications. The role of manikins in the development of day-to-day garments is also discussed, including fit, comfort, and ergonomics. The book is a key resource for all those engaged in textile and apparel development and production, and for academics engaged in research into textile science and technology. Delivers theoretical and practical guidance on evaluation using manikins that is of benefit to anyone developing textile products Offers a range of perspectives on high-performance textiles from an

international team of authors with diverse expertise in academic research, and textile development and manufacture Provides systematic and comprehensive coverage of the topic from fabric construction, through product development, to the range of current and potential applications that exploit high-performance textile technology

Der lange Weg zur Freiheit Nelson Mandela 2014-01-25 »Ich bin einer von ungezählten Millionen, die durch Nelson Mandelas Leben inspiriert wurden.« Barack Obama Eine fast drei Jahrzehnte währende Gefängnishaft ließ Nelson Mandela zum Mythos der schwarzen Befreiungsbewegung werden. Kaum ein anderer Politiker unserer Zeit symbolisiert heute in solchem Maße die Friedenshoffnungen der Menschheit und den Gedanken der Aussöhnung aller Rassen wie der ehemalige südafrikanische Präsident und Friedensnobelpreisträger. Auch nach seinem Tod finden seine

ungebrochene Charakterstärke und Menschenfreundlichkeit die Bewunderung aller friedenswilligen Menschen auf der Welt. Mandelas Lebensgeschichte ist über die politische Bedeutung hinaus ein spannend zu lesendes, kenntnis- und faktenreiches Dokument menschlicher Entwicklung unter Bedingungen und Fähnissen, vor denen die meisten Menschen innerlich wie äußerlich kapituliert haben dürften.

E-Waste in Transition Florin-Constantin Mihai 2016-06-29 E-waste management is a serious challenge across developed, transition, and developing countries because of the consumer society and the globalization process. E-waste is a fast-growing waste stream which needs more attention of international organizations, governments, and local authorities in order to improve the current waste management practices. The book reveals the pollution side of this waste stream with critical

implications on the environment and public health, and also it points out the resource side which must be further developed under the circular economy framework with respect to safety regulations. In this context, complicated patterns at the global scale emerge under legal and illegal e-waste trades. The linkages between developed and developing countries and key issues of e-waste management sector are further examined in the book.

Erdgas und erneuerbares Methan für den Fahrzeugantrieb Richard van Basshuysen 2015-03-09 Das Buch bietet einen allgemeinen Überblick über die verschiedenen Aspekte von Eigenschaften, Gewinnung, Speicherung und Anwendung von Erdgas und erneuerbarem Methan. Speziell wird der Betrieb von Fahrzeugen betrachtet, wobei der aktuelle Stand der Technik insbesondere in der CO2-Diskussion beleuchtet wird. Neben den fundierten Darstellungen zu Technik

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und Betrieb werden auch die künftigen Entwicklungen zur klimaneutralen Mobilität angesprochen.

Von der Nordsee Bis Venedig Artur Braun 2019-01-26 Der Physiker Artur Braun schildert in diesem Buch seine Erlebnisse mit der neuen Elektromobilität aus Brennstoffzellen und Wasserstoff, die er als Geschäftsreisender in zwei Jahren und über nahezu 20,000 Kilometer von der Schweiz aus ins europäische Ausland «erfahren» hat. Zu seinen grossen Reisezielen mit dem Brennstoffzellenauto zählen Berlin, Brüssel, Strasbourg, Luxembourg, Genf, Rotterdam und schliesslich Venedig. Das mit 200 Abbildungen grosszügig bebilderte Buch ist inhaltlich angereichert mit Informationen zu Energiequellen, Verkehr, internationalem Handel und Geopolitik. Für den Leser spannend sind die Passagen, in denen dem passionierten Automobilisten bald der Wasserstoff ausgegangen ist und eine

Wasserstofftankstelle nicht in Sicht war.

Advances in Biorefineries Keith W. Waldron 2014-04-28 Biorefineries are an essential technology in converting biomass into biofuels or other useful materials. *Advances in Biorefineries* provides a comprehensive overview of biorefining processing techniques and technologies, and the biofuels and other materials produced. Part one focuses on methods of optimizing the biorefining process and assessing its environmental and economic impact. It also looks at current and developing technologies for producing value-added materials. Part two goes on to explore these materials with a focus on biofuels and other value-added products. It considers the properties, limitations, and practical applications of these products and how they can be used to meet the increasing demand for renewable and sustainable fuels as an alternative to fossil fuels.

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in Biorefineries is a vital reference for biorefinery/process engineers, industrial biochemists/chemists, biomass/waste scientists and researchers and academics in the field. A comprehensive and systematic reference on the advanced biomass recovery and conversion processes used in biorefineries Reviews developments in biorefining processes Discusses the wide range of value-added products from biorefineries, from biofuel to biolubricants and bioadhesives

The Carbon Fix Stephanie Paladino 2016-11-18 Given the growing urgency to develop global responses to a changing climate, *The Carbon Fix* examines the social and equity dimensions of putting the world's forests—and, necessarily, the rural people who manage and depend on them—at the center of climate policy efforts such as REDD+, intended to slow global warming. The book assesses the implications of

international policy approaches that focus on forests as carbon and especially, forest carbon offsets, for rights, justice, and climate governance. Contributions from leading anthropologists and geographers analyze a growing trend towards market principles and financialization of nature in environmental governance, placing it into conceptual, critical, and historical context. The book then challenges perceptions of forest carbon initiatives through in-depth, field-based case studies assessing projects, policies, and procedures at various scales, from informed consent to international carbon auditing. While providing a mixed assessment of the potential for forest carbon initiatives to balance carbon with social goals, the authors present compelling evidence for the complexities of the carbon offset enterprise, fraught with competing interests and interpretations.

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multiple scales, and having unanticipated and often deleterious effects on the resources and rights of the world's poorest peoples—especially indigenous and rural peoples. The Carbon Fix provides nuanced insights into political, economic, and ethical issues associated with climate change policy. Its case approach and fresh perspective are critical to environmental professionals, development planners, and project managers; and to students in upper level undergraduate and graduate courses in environmental anthropology and geography, environmental and policy studies, international development, and indigenous studies. *Entscheidungen über dezentrale Energieanlagen in der Zivilgesellschaft* Roßnagel, Alexander Für die umwelt- und gesellschaftsverträgliche Transformation des Energiesystems braucht es Verfahren, in denen die

Planung und die Zulassung dezentraler Anlagen zur Nutzung erneuerbarer Energien so erfolgen, dass die Öffentlichkeit in ausreichender Weise beteiligt wird. Diese Anlagen schonen zwar das Klima, nehmen aber Raum in Anspruch, verändern das Landschaftsbild und beeinträchtigen Umwelt und Natur. Die Zivilgesellschaft will an der Entscheidung über solche Anlagen in ihrem Lebensraum beteiligt sein. Bisher führen solche Verfahren allerdings oft zu großen Konflikten mit destruktiven Ergebnissen: Entweder setzt der Investor die Anlage im Konflikt durch oder verzichtet auf den Standort. Das Buch analysiert diese Konflikte. Es gibt Empfehlungen, wie die Öffentlichkeit in den relevanten Verfahren der Regionalplanung, Bauleitplanung und Anlagengenehmigung durch neue und ergänzende Verfahrensformen so beteiligt werden kann, dass Akzeptanz und Akzeptabilität der Entscheidung

möglich sind. Schließlich stellt es

die Praxiserfahrungen aus der
Erprobung dieser Vorschläge vor.