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Global Environmental Politics **ISTFA 2014** *Climate Change 2014: Mitigation of Climate Change* **Proceedings of the XIV INTERNATIONAL SYMPOSIUM SYMORG 2014** *Sustainable Transport Solutions* Light Metals 2014 **Engineering Optimization 2014** **Waste Electrical and Electronic Equipment (WEEE) Handbook** **Applications of Evolutionary Computation** **Ambient Assisted**

Living Non-exhaust Particulate Emissions from Road Transport **An Ignored Environmental Policy Challenge** **Handbook of Electronic Waste Management** **Quantum Electrodynamics of Photosynthesis** *The European Parliament and its International Relations* *Critical metals in discarded electronics* *The Union for the Mediterranean* The EU, Promoting Regional Integration, and Conflict Resolution Interregionalism

and the European Union Yearbook of International Organizations 2014-2015, Volumes 1A And 1B (SET) *Green Crimes and Dirty Money* **Ethical Dilemmas in Schools** **The Carbon Footprint Handbook 16.** *Internationales Stuttgarter Symposium* Fabricate 2020 *Developments in International Bridge Engineering* **IRS Obstruction: Lois Learner's Missing Emails, Part II, Serial No. 113-127, June 24, 2014, 113-2** **Hearing Pulp and**

**Paper Industry
Nanotechnology
in Paper and
Wood
Engineering
Maintenance,
Safety, Risk,
Management and
Life-Cycle
Performance of
Bridges It's
Complicated 10th
PhD Symposium
in Quebec Canada
12th PhD
Symposium in
Prague Czech Rep
Recycled Materials
for Construction
Applications Human
Perception of
Environmental
Sounds Thermal
Insulation and
Radiation Control
Technologies for
Buildings The
Routledge
International
Handbook of the
Crimes of the
Powerful **Manikins
for Textile
Evaluation Metal****

Sustainability E-
Waste in Transition
**8th RILEM
International
Symposium on
Testing and
Characterization
of Sustainable
and Innovative
Bituminous
Materials**

Maintenance,
Safety, Risk,
Management and
Life-Cycle
Performance of
Bridges contains
lectures and papers
presented at the
Ninth International
Conference on
Bridge
Maintenance,
Safety and
Management
(IABMAS 2018),
held in Melbourne,
Australia, 9-13 July
2018. This volume
consists of a book
of extended
abstracts and a
USB card

containing the full
papers of 393
contributions
presented at
IABMAS 2018,
including the T.Y.
Lin Lecture, 10
Keynote Lectures,
and 382 technical
papers from 40
countries. The
contributions
presented at
IABMAS 2018 deal
with the state of the
art as well as
emerging concepts
and innovative
applications related
to the main aspects
of bridge
maintenance,
safety, risk,
management and
life-cycle
performance. Major
topics include: new
design methods,
bridge codes, heavy
vehicle and load
models, bridge
management
systems, prediction
of future traffic

models, service life prediction, residual service life, sustainability and life-cycle assessments, maintenance strategies, bridge diagnostics, health monitoring, non-destructive testing, field testing, safety and serviceability, assessment and evaluation, damage identification, deterioration modelling, repair and retrofitting strategies, bridge reliability, fatigue and corrosion, extreme loads, advanced experimental simulations, and advanced computer simulations, among others. This volume provides both an up-to-date overview of the field of bridge engineering and significant

contributions to the process of more rational decision-making on bridge maintenance, safety, risk, management and life-cycle performance of bridges for the purpose of enhancing the welfare of society. The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems, including students, researchers and engineers from all areas of bridge engineering. The Light Metals symposia are a key part of the TMS Annual Meeting & Exhibition, presenting the most recent

developments, discoveries, and practices in primary aluminum science and technology. Publishing the proceedings from these important symposia, the Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies. The 2014 collection includes papers from the following symposia: •Alumina and Bauxite •Aluminum Alloys: Fabrication, Characterization and Applications •Aluminum Processing •Aluminum Reduction Technology •Cast Shop for Aluminum Production •Electrode

Technology for Aluminum Production • Light-metal Matrix (Nano)-composites 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. Nanotechnology in Paper and Wood Engineering: Fundamentals, Challenges and Applications describes recent advances made in the use of

nanotechnology in the paper and pulp industry. Various types of nano-additives commonly used in the paper industry for modification of raw material to enhance final products are included, with other sections covering the imaging applications of nano-papers and nano-woods in pharmaceuticals, biocatalysis, photocatalysis and energy storage. This book is an important reference source for materials scientists and engineers who are looking to understand how nanotechnology is being used to create more efficient manufacturing processes in for the paper and wood

industries. Provides information on nano-paper production and its applications. Explains the major synthesis techniques and design concepts of cellulosic or wooden nanomaterials for industrial applications. Assesses the major challenges of creating nanotechnology-based manufacturing systems for wood and paper engineering. Across the world, most people are well aware of ordinary criminal harms to person and property. Often committed by the powerless and poor, these individualized crimes are catalogued in the

statistics collected annually by the FBI and by similar agencies in other developed nations. In contrast, the more harmful and systemic forms of injury to person and property committed by powerful and wealthy individuals, groups, and national states are neither calculated by governmental agencies nor annually reported by the mass media. As a result, most citizens of the world are unaware of the routinized "crimes of the powerful", even though they are more likely to experience harms and injuries from these types of organized offenses than they are from the atomized offenses of the

powerless. Research on the crimes of the powerful brings together several areas of criminological focus, involving organizational and institutional networks of powerful people that commit crimes against workers, marketplaces, taxpayers and political systems, as well as acts of torture, terrorism, and genocide. This international handbook offers a comprehensive, authoritative and structural synthesis of these interrelated topics of criminological concern. It also explains why the crimes of the powerful are so difficult to control. Edited by

internationally acclaimed criminologist Gregg Barak, this book reflects the state of the art of scholarly research, covering all the key areas including corporate, global, environmental, and state crimes. The handbook is a perfect resource for students and researchers engaged with explaining and controlling the crimes of the powerful, domestically and internationally. This is the first comprehensive analysis of the Union for the Mediterranean (UfM), launched in 2008 amid great controversy within the European Union. Affected from the start by

negative fallout from the failure of Middle East peace initiatives, its inadequacies have been underlined by the popular movement for regime change in the Arab world. Leading experts provide here the first integrated analysis of the significance and shortcomings of the UfM. Beginning with critical questioning of the motives and institutional logics informing this venture, the collection proceeds to analyse its key actors, as well as major policy dossiers such as energy and development. The book explains how and why an initiative aiming to depoliticize Euro-

Mediterranean relations in fact proved wide open to political discord, bringing huge disruption to UfM activity. While some aspects are found to have merit, the volume is critical of the way in which EU Mediterranean policy became driven by a narrow range of national interests, lost sight of the political objectives of the preceding Barcelona Process and became overwhelmingly bilateral in approach, at the expense of more ambitious region-building efforts. It concludes by highlighting the need to reform the EU Mediterranean policy framework in the light of the Arab uprisings of 2011.

This book was published as a special issue of Mediterranean Politics. 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. Volume 1 (A and B) covers international organizations throughout the world, comprising their aims,

activities and events. Waste Electrical and Electronic Equipment (WEEE) Handbook, Second Edition, is a one-stop reference on current electronic waste legislation initiatives, their impact, and the latest technological considerations for reducing electronic waste (e-waste) and increasing the efficiency of materials recovery. It also provides a wide-range of global and corporate examples and perspectives on the challenges that face specific regions and companies, along with the solutions they are implementing in managing e-waste, offering further insights on how

discarded products can be treated. Sections introduce the reader to legislation and initiatives to manage WEEE and discuss technologies for the refurbishment, treatment and recycling of waste electronics. Further sections focus on electronic products that present particular challenges for recyclers, explore sustainable design of electronics and supply chains, discuss national and regional WEEE management schemes, and more. Addresses the latest challenges and opportunities for electronic waste (e-waste) management, including e-waste collection models,

circular economy implications, rare earth metal recovery, and much more. Draws lessons for waste electrical and electronic equipment (WEEE) policy and practice from around the world. Discusses legislation and initiatives to manage WEEE, including global e-waste initiatives, EU legislation relating to electronic waste, and eco-efficiency evaluation of WEEE take-back systems. This book provides a comprehensive study into the promotion of regional integration as a central pillar of European Union (EU) relations with the rest of the world. It is a strategy to deal with a core security

challenge: the transformation of conflicts and, in particular, regional conflicts. Yet to what extent has the promotion of regional integration been successful in transforming conflicts? What can we regard as the core mechanisms of such an impact? This volume offers a comprehensive assessment of the nexus between promoting integration and conflict transformation. The authors systematically compare the consequences of EU involvement in eight conflicts in four world regions within a common framework. In doing so, they focus on the promotion of integration as a

preventative strategy to avoid conflicts turning violent and as a long-term strategy to transform violent conflicts by placing them in a broader institutional context. The book will be of use to students and scholars interested in European foreign policy, comparative regionalism, and conflict resolution. Environmental crimes are primarily driven by financial motives. The combined financial value of illicit trade in protected wildlife, illegal logging and waste trafficking is estimated to come directly after counterfeiting, the narcotic drugs trade and illegal gambling. Logically, the proceeds of

these crimes must also be laundered. Goods, however, are not the only money maker for environmental criminals. Corporations may also try to 'save' costs by not complying with environmental regulations and thus commit crimes of omission rather than commission. From an enforcement and compliance perspective focusing on the proceeds of crime may therefore be an effective strategy. This book brings together different perspectives on the financial aspects of environmental crime and harm from a green criminological viewpoint. It addresses the role

of economic systems, the value of environmental performance for corporations, money laundering in the context of environmental crime, financial investigation and questions of regulation and penalties. Discussing these topics from the view of green criminology, sociology and governance, this book will be of great interest to all those concerned about the financial dimensions of crime and the environment. This volume features the latest research and practical data from the premier event for the microelectronics failure analysis community. The

papers address the symposium's theme, Exploring the Many Facets of Failure Analysis. This work investigates the complexity of ethics as a field of inquiry and practice across a principal's career. Fully contextualized, and thus carrying the contradictions and requirements of any school, the issues realistically do not usually lead to a single, beat-all answer, as any solution will likely have positive and negative consequences. Drawn from the authors' experiences and studies of schools over decades, the central figure is a fictional principal of a magnet school, whose dilemmas reflect the

questions educators must be prepared for. Each decision takes into account the principal's and staff's identities and values because they are all human and their opinions influence the outcomes. The work injects analytic, virtue, feminist, care, deontological, and critical theory insights as Deweyan ethics provides a lens for examining dilemmas. This accessible work blends reflective theory, the ordinary worlds of schools, and engaging pedagogical practice to guide those planning to enter the education sector. 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. Recycling of waste from electrical and electronic equipment (WEEE) traditionally focuses on large quantities of waste materials such as plastics. However, some product groups in the WEEE contain hidden treasures in the form of critical metals. This project

assesses the critical metals' waste handling as part of five selected product groups, in the Nordic region. The environmental and economic benefits from the recycling of these metals currently and in the near future is quite substantial, mainly due to the presence of significant quantities of gold in the selected products. In order to contribute further to the circular economy concept, the Nordic countries should pay attention not only to quantitative but also to qualitative aspects of recycling, in order to capture recyclable materials that, although in small quantities, their recycling

brings a high economic and environmental value. 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 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 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 range 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 This book presents the state of the art on the topic of recycling of plastic building materials, comprising a synthetic market analysis, and presenting the latest developments in plastic recycling technologies. The book also makes recommendations to optimize the success of recycling and encourage the

circular economy, while acknowledging the environmental and sustainability implications of plastic recycling for building construction. The distinctive features of this book are the variety of topics covered on sustainable plastic recycling, the discussion of advances in plastic recycling technology, detailed illustrations, and summarized descriptions of separation processes. This book is a guide for both technical and non-technical readers, and for anyone involved in plastic waste or recycling, including researchers and students in plastics engineering,

polymer science, polymer chemistry, environmental science, and sustainable materials. Modern engineering processes and tasks are highly complex, multi- and interdisciplinary, requiring the cooperative effort of different specialists from engineering, mathematics, computer science and even social sciences. Optimization methodologies are fundamental instruments to tackle this complexity, giving the possibility to unite synergistically team members' inputs and thus decisively contribute to solving new engineering

technological challenges. With this context in mind, the main goal of Engineering Optimization 2014 is to unite engineers, applied mathematicians, computer and other applied scientists working on research, development and practical application of optimization methods applied to all engineering disciplines, in a common scientific forum to present, analyze and discuss the latest developments in this area. Engineering Optimization 2014 contains the edited papers presented at the 4th International Conference on Engineering

Optimization (ENGOPT2014, Lisbon, Portugal, 8-11 September 2014). ENGOPT2014 is the fourth edition of the biennial "International Conference on Engineering Optimization". The first conference took place in 2008 in Rio de Janeiro, the second in Lisbon in 2010 and the third in Rio de Janeiro in 2012. The contributing papers are organized around the following major themes: - Numerical Optimization Techniques - Design Optimization and Inverse Problems - Efficient Analysis and Reanalysis Techniques - Sensitivity Analysis - Industrial

Applications - Topology Optimization For Structural Static and Dynamic Failures - Optimization in Oil and Gas Industries - New Advances in Derivative-Free Optimization Methods for Engineering Optimization - Optimization Methods in Biomechanics and Biomedical Engineering - Optimization of Laminated Composite Materials - Inverse Problems in Engineering Engineering Optimization 2014 will be of great interest to engineers and academics in engineering, mathematics and computer science.

Surveys the online social habits of American teens and analyzes the role technology and social media plays in their lives, examining common misconceptions about such topics as identity, privacy, danger, and bullying. This publication discusses the real-world performance data of low-carbon buses in the People's Republic of China. It also reviews the environmental and financial impacts, as well as the policies used to promote them. The People's Republic of China has taken the lead in the deployment of low-carbon buses and is moving toward full electrification to address climate

change and reduce greenhouse gas emissions. Data and information in this publication can benefit countries interested in promoting low-carbon buses to design appropriate climate change policies. Non-exhaust emissions of particulate matter constitute a little-known but rising share of emissions from road traffic and have significant negative impacts on public health. This report synthesizes the current state of knowledge about the nature, causes, and consequences of non-exhaust particulate emissions. It also projects how particulate matter emissions from non-exhaust sources

may evolve in future years and reflects on policy instrument mixes that can address this largely ignored environmental issue. The book includes peer-reviewed contributions selected from presentations given at the Istanbul Bridge Conference 2014, held from August 11 - 13 in Istanbul, Turkey. It reports on the current challenges in bridge engineering faced by professionals around the globe, giving a special emphasis to recently developed techniques, innovations and opportunities. The book covers key topics in the field, including modeling and analysis

methods; construction and erection techniques; design for extreme events and condition assessment and structural health monitoring. There is a balanced presentation of theory, research and practice. This book, which provides the readers with a comprehensive and timely reference guide on current practices in bridge engineering, is intended for professionals, academic researchers and students alike. This book uses an array of different approaches to describe photosynthesis, ranging from the subjectivity of human perception

to the mathematical rigour of quantum electrodynamics. This interdisciplinary work draws from fields as diverse as astronomy, agriculture, classical and quantum optics, and biology in order to explain the working principles of photosynthesis in plants and cyanobacteria. This book offers a unique treatment of building insulating products and the integration of these products with building components. This book was written for all those involved in building design, specification, construction, and commissioning, providing them with an understanding of

and appreciation for the wide variety of thermal insulation products and technologies available for use in all types of buildings. The book proceeds from basic definitions and discussion of heat-transfer topics and thermal insulation concepts, to the design and use of these products. The impact of thermal insulation on dynamic building performance, including factors other than heating and cooling, is also discussed. The book does not require an advanced mathematical background. The authors provide sufficient information to provide a qualitative understanding, with

more mathematical sections included for those interested in modeling and analysis. The basic physics associated with heat transfer in buildings are presented, along with the steady-state and transient analysis techniques needed for the effective implementation of thermal insulation and assemblies. Modern building design involves the integration of comfort, safety, economics, durability and cost considerations, all of which impact the selection and use of thermal insulation materials in buildings. In addition to theoretical explanations of the underlying science, the book details the

properties and application of new thermal insulation materials, including vacuum panels, gas-filled panels, aerogels, phase-change materials, and radiation control technologies. Given its scope, the book will be of interest to researchers and building engineers wishing to understand the latest technologies and materials available, so as to achieve reduced energy consumption in commercial and residential buildings.

Handbook of Electronic Waste Management: International Best Practices and Case Studies begin with a brief summary of the environmental

challenges associated with the approaches used in international e-waste handling. The book's authors offer a detailed presentation of e-waste handling methods that also includes examples to further demonstrate how they work in the real world. This is followed by data that reveals the geographies of e-waste flows at global, national and subnational levels. Users will find this resource to be a detailed presentation of e-waste estimation methods that also addresses both the handling of e-waste and their hazardous effect on the surrounding environment. Includes case

studies to illustrate the implementation of innovative e-waste treatment technologies

Provides methods for designing and managing e-waste management networks in accordance with regulations, fulfilment obligations and process efficiency

Reference guide for adapting traditional waste management methods and handling practices to the handling and storage of electronic waste until disposal

Provides e-waste handling solutions for both urban and rural perspectives

Die Anforderungen an Forschung und Entwicklung in der Automobilindustrie ändern sich kontinuierlich.

Hersteller und Zulieferer müssen einerseits globale Lösungen entwickeln, andererseits aber Kundenbedürfnisse und legislative Vorgaben einzelner Märkte berücksichtigen. Selbst bei der Emissionsgesetzgebung herrscht alles andere als globale Einigkeit. In Europa wird ab September 2017 die Messung der "real-driving emissions" (RDE) eingeführt. Damit wird die Bewertung der Schadstoffemissionen vom Prüfstand auf die Straße verlagert, mit umfassenden Konsequenzen für die Antriebsentwicklung. Zudem wird in verschiedenen Weltregionen die

lokale Einführung von Zonen mit schadstoffemissionsfreiem Verkehr gefordert. Überlagert wird all dies durch die laufende Absenkung der CO₂-Grenzwerte für die Fahrzeugflotten. Alle Weltregionen haben hier unterschiedliche Absenkungsschritte definiert. Dies alles wird noch getoppt von steigenden Ansprüchen an Komfort und Emotionalität des Automobils. Wie reagiert nun die Automobilindustrie im Spannungsfeld zwischen zunehmender Globalisierung und möglichst global zu vermarktender Produkte auf der einen Seite und den neuen, von

Regionen abhängigen Anforderungen an das Fahrzeug und der dazugehörigen Variantenvielfalt auf der anderen Seite? Welche technischen Konsequenzen ergeben sich hieraus? Darüber und über vieles mehr werden Experten aus Industrie und Wissenschaft beim Symposium berichten. This work presents the results of RILEM TC 237-SIB (Testing and characterization of sustainable innovative bituminous materials and systems). The papers have been selected for publication after a rigorous peer review process and

will be an invaluable source to outline and clarify the main directions of present and future research and standardization for bituminous materials and pavements. The following topics are covered: - Characterization of binder-aggregate interaction - Innovative testing of bituminous binders, additives and modifiers - Durability and aging of asphalt pavements - Mixture design and compaction analysis - Environmentally sustainable materials and technologies - Advances in laboratory characterization of bituminous materials - Modeling of road

materials and pavement performance prediction - Field measurement and in-situ characterization - Innovative materials for reinforcement and interlayer systems - Cracking and damage characterization of asphalt pavements - Recycling and re-use in road pavements This is the proceedings of the RILEM SIB2015 Symposium (Ancona, Italy, October 7-9, 2015). Fabricate 2020 is the fourth title in the FABRICATE series on the theme of digital fabrication and published in conjunction with a triennial conference (London, April 2020). The book

features cutting-edge built projects and work-in-progress from both academia and practice. It brings together pioneers in design and making from across the fields of architecture, construction, engineering, manufacturing, materials technology and computation. Fabricate 2020 includes 32 illustrated articles punctuated by four conversations between world-leading experts from design to engineering, discussing themes such as drawing-to-production, behavioural composites, robotic assembly, and digital craft. For more than twenty

years, Global Environmental Politics has provided an up-to-date, accurate, and unbiased introduction to the world's most pressing environmental issues. This new edition continues this tradition while covering critical new developments in the field. Through case studies on key issues such as climate change, toxic chemicals, and biodiversity loss, the authors detail the development of major environmental regimes. With new material on the adoption of global Sustainable Development Goals and the 2030 Agenda for

Sustainable Development; the December 2015 Paris Climate Change conference; and recent meetings of major conventions on desertification, biological diversity, and more; the authors present a comprehensive overview of contemporary international environmental politics. Global Environmental Politics is vital reading for any student wishing to understand the current state of the field and to make informed decisions about which policies might best safeguard our environment for the future. The sustainable use of natural resources is an important global

challenge, and improved metal sustainability is a crucial goal for the 21st century in order to conserve the supply of critical metals and mitigate the environmental and health issues resulting from unrecovered metals. Metal Sustainability: Global Challenges, Consequences and Prospects discusses important topics and challenges associated with sustainability in metal life cycles, from mining ore to beneficiation processes, to product manufacture, to recovery from end-of-life materials, to environmental and health concerns resulting from generated waste.

The broad perspective presented highlights the global interdependence of the many stages of metal life cycles. Economic issues are emphasized and relevant environmental, health, political, industrial and societal issues are discussed. The importance of applying green chemistry principles to metal sustainability is emphasized. Topics covered include: • Recycling and sustainable utilization of precious and specialty metals • Formal and informal recycling from electronic and other high-tech wastes • Global management of

electronic wastes • Metal reuse and recycling in developing countries • Effects of toxic and other metal releases on the environment and human health • Effect on bacteria of toxic metal release • Selective recovery of platinum group metals and rare earth metals • Metal sustainability from a manufacturing perspective • Economic perspectives on sustainability, mineral development, and metal life cycles • Closing the Loop - Minerals Industry Issues The aim of this book is to improve awareness of the increasingly important role metals play in our

high-tech society, the need to conserve our metal supply throughout the metal life cycle, the importance of improved metal recycling, and the effects that unhindered metal loss can have on the environment and on human health. Following the Lisbon Treaty, the powers of the European Parliament in external relations have gradually expanded and it is increasingly influencing the foreign policy of the European Union. This book analyses the role of the European Parliament as an international actor and presents a new debate about its role outside the EU territory. It

explores different policy areas including human rights, international aid, trade, crisis management and the environment to provide a systematic analysis of the modern global role of the European Parliament. The book also considers the European Parliament's regional interactions with Africa, Latin America, the United States, Asia and the Middle East. With a common analytical framework and research covering the lifespan of the European Parliament from its first direct elections in 1979 to the present day, this comprehensive volume presents an unparalleled

analysis of one of the most important institutions in the European Union. This book will be of interest to students and scholars of European Union politics and institutions, European policy, government, international relations and European history. This book constitutes the thoroughly refereed post-conference proceedings of the International Conference on the Applications of Evolutionary Computation, EvoApplications 2014, held in Granada, Spain, in April 2014, colocated with the Evo* 2014 events EuroGP, EvoCOP, and EvoMUSART. The 79 revised full

papers presented were carefully reviewed and selected from 128 submissions. EvoApplications 2014 consisted of the following 13 tracks: EvoCOMNET (nature-inspired techniques for telecommunication networks and other parallel and distributed systems), EvoCOMPLEX (evolutionary algorithms and complex systems), EvoENERGY (evolutionary computation in energy applications), EvoFIN (evolutionary and natural computation in finance and economics), EvoGAMES (bio-inspired algorithms

in games), EvoIASP (evolutionary computation in image analysis, signal processing, and pattern recognition), EvoINDUSTRY (nature-inspired techniques in industrial settings), EvoNUM (bio-inspired algorithms for continuous parameter optimization), EvoPAR (parallel implementation of evolutionary algorithms), EvoRISK (computational intelligence for risk management, security and defence applications), EvoROBOT (evolutionary computation in robotics), EvoSTOC (evolutionary algorithms in stochastic and

dynamic environments), and EvoBio (EC and related techniques in bioinformatics and computational biology). Thorough and detailed, The Carbon Footprint Handbook encompasses all areas of carbon footprint, including the scientific elements, methodological and technological aspects, standards, industrial case studies, and communication of carbon footprint results. Written and edited by an international group of experts, the far-ranging topics on carbon footprinting are divided into three sections comprising chapters focused on methodology, modeling, and case

studies. The concepts of carbon footprint and climate change are no longer new to the world. As a result, there is increasing interest in quantifying and reducing the carbon footprint around the world, from industrial to individual levels. This book describes modeling aspects and calculations of carbon footprint in organizations and production. It emphasizes the importance of locating non-polluting energy sources as well as sustainability. The book also provides case studies offering a wealth of information on practices and methods in detecting and addressing carbon

footprint. The Carbon Footprint Handbook is an important reference that discusses, in depth, the essential details of carbon footprint assessment. It uses research and case studies on methods and practices from locations around the world including China, India, Spain, and Latin America. It demonstrates that the problems of carbon footprint are indeed worldwide while showing how they can be addressed in myriad areas of life, from industrial to personal action. Is the EU isolated within the emergent multipolar world? Concentrating on interregional relations and focussing on the

European Union's (EU) evolving international role with regards to regional cooperation, this innovative book collects a set of fresh empirical analyses of interregional ties binding the EU with its Eastern and Southern neighbourhood, as well as with Asia, Africa and the Americas. The 25 leading authors from 5 continents have contributed original and diverse chapters and the book advances a novel theoretical 'post-revisionist' approach beyond both the Eurocentrism of 'Europe First' perspectives as well as the Euroscepticism of those advocating to

simply move 'Beyond Europe'. After a Foreword by A. Acharya, the book's five sections reflect the main drivers of EU interregional policies: The European Union as a Sophisticated Laboratory of Regional and Interregional Cooperation (with chapters by M. Telò, L. Fawcett and T. Risse), De Facto Drivers of Regionalism (F. Ponjaert, M. Shu, A. Valladão and C. Jakobeit), De Jure Drivers of Regionalism (S. Lavenex, G. Finizio, C. Jakobeit, R. Coman, C. Cocq & S. Teo L-Shah), Cognitive Drivers of Regionalism (J. Rüländ, E. Fitriani, S. Stavridis & S. Kingah, P. Bacon),

and Instrumental Drivers of Regionalism (B. Delcourt, C. Olsson & G. Müller, A. Malamud & P. Seabra and L. Fioramonti & J. Kostopoulos).

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