

Environmental And Material Flow Cost Accounting Principles And Procedures Eco Efficiency In Industry And Science

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Accounting for Sustainability: Asia Pacific Perspectives - Ki-Hoon Lee 2018-01-30

This book advances the understanding of corporate sustainability and challenges and roles of sustainability accounting in the Asia-Pacific region. The Asia-Pacific region has shown fast economic growth for several decades which is expected to continue. In this context, Asia has become the "production engine" of the global economy. At the same time scientific reports reveal that some planetary boundaries are crossed, for example relating to biodiversity and climate change. Companies in the Asia-Pacific region are therefore increasingly challenged to reduce their environmental impacts, to document their social contribution and to contribute to sustainable development. Key approaches to identify sustainability problems and challenges, to support improvement processes and to back up sustainability contributions include accounting and reporting. In contrast to the high relevance of accounting and reporting for corporate sustainability for the Asia-Pacific region, academic research has so far been dominated by Western researchers and predominantly dealt with Western and Japanese cases and approaches. It is thus time to take account of Asian perspectives on accounting and reporting for sustainability in the Asia-Pacific region.

Handbook of Life Cycle Assessment (LCA) of Textiles and Clothing - Subramanian Senthilkannan Muthu 2015-07-25

Life cycle assessment (LCA) is used to evaluate the environmental impacts of textile products, from raw material extraction, through fibre processing, textile manufacture, distribution and use, to disposal or recycling. LCA is an important tool for the research and development process, product and process design, and labelling of textiles and clothing. Handbook of Life Cycle Assessment (LCA) of Textiles and Clothing systematically covers the LCA process with comprehensive examples and case studies. Part one of the book covers key indicators and processes in LCA, from carbon and ecological footprints to disposal, re-use and recycling. Part two then discusses a broad range of LCA applications in the textiles and clothing industry. Covers the LCA process and its key indicators, including carbon and ecological footprints, disposal, re-use and recycling Examines the key developments of LCA in the textile and clothing industries Provides a wide range of case studies and examples of LCA applications in the textile and clothing industries

Environmental and Material Flow Cost Accounting - Christine M. Jasch 2010-11-22

Recognizing the increasing importance of environmental issues, energy prices, material availability and efficiency and the difficulty of adequately managing these issues in traditional accounting systems, several companies all over the world have started implementing "Environmental and Material Flow Cost Accounting" (EMA and MFCA). "Environmental and Material Flow Costs Accounting" explains and updates the approach developed for the United Nations Department of Economic and Social Affairs (DSD/UNDESA) and the International Federation of Accountants (IFAC) and in addition includes experiences of several case studies and recent developments regarding EMA and MFCA in national statistics and ISO standardization.

Principles of Accounting Volume 2 - Managerial Accounting - Mitchell Franklin 2019-02-14

A less-expensive grayscale paperback version is available. Search for ISBN 9781680922936. Principles of Accounting is designed to meet the scope and sequence requirements of a two-semester accounting course that covers the fundamentals of financial and managerial accounting. This book is specifically designed to

appeal to both accounting and non-accounting majors, exposing students to the core concepts of accounting in familiar ways to build a strong foundation that can be applied across business fields. Each chapter opens with a relatable real-life scenario for today's college student. Thoughtfully designed examples are presented throughout each chapter, allowing students to build on emerging accounting knowledge. Concepts are further reinforced through applicable connections to more detailed business processes. Students are immersed in the "why" as well as the "how" aspects of accounting in order to reinforce concepts and promote comprehension over rote memorization.

Environmental Management Accounting - Christian Herzig 2012-03-15

Sustainable development will not happen without substantial contributions from and leading roles of companies and business organizations. This requires the provision of adequate information on corporate social and ecological impacts and performance. For the last decade, progress has been made in developing and adapting accounting mechanisms to these needs but significant work is still needed to tackle the problems associated with conventional accounting. Until recently, research on environmental management accounting (EMA) has concentrated on developed countries and on cost-benefit analysis of implementing individual EMA tools. Using a comparative case study design, this book seeks to redress the balance and improve the understanding of EMA in management decision-making in emerging countries, focussing specifically on South-East Asian companies. Drawing on 12 case studies, taken from a variety of industries, *Environmental Management Accounting: Case Studies of South-East Asian Companies* explores the relationship between decision situations and the motivation for, and barriers to, the application of clusters of EMA tools as well as the implementation process itself. This book will be useful to scholars interested in the environmental and sustainability management accounting research field and those considering specific approaches to EMA within emerging economies.

100 Pioneers in Efficient Resource Management - Mario Schmidt 2018-12-04

The book presents about 100 current examples of how energy and materials can be saved in manufacturing companies. They serve to show which measures can be used in modern companies to exploit the potential for resource efficiency. The book is aimed at practitioners in companies and consulting firms, but is also suitable for the university sector as a practical introduction to the topic of resource efficiency. The materials used account for almost 43 percent of the costs of an average industrial company in Germany. Personnel costs, on the other hand, are only 22 percent, while energy costs are as low as 2 percent. If a company wants to save costs, above all it must consider the use of materials and produce in a resource-efficient manner. This simultaneously relieves the environment and reduces dependence on scarce raw materials. The implementation of resource efficiency is not easy. There are indeed numerous starting points in production, often in process innovations or in product development. However, only a few companies publish their measures and savings potentials. In practice, this means that there are often no learning examples in practice, but some of them are explicitly listed in this work. As you can see, resource efficiency in production and products can also be seen as a success factor for many companies. In the project 100 Pioneers in Efficient Resource Management, committed companies from Baden-Wuerttemberg are showing

their solutions. The project was carried out by a competent team from the Pforzheim University and the State Agency for Environmental Technology. Leading trade associations in Baden-Württemberg have supported it.

Resource Efficiency of Processing Plants - Stefan Krämer 2018-05-07

This monograph provides foundations, methods, guidelines and examples for monitoring and improving resource efficiency during the operation of processing plants and for improving their design. The measures taken to improve their energy and resource efficiency are strongly influenced by regulations and standards which are covered in Part I of this book. Without changing the actual processing equipment, the way how the processes are operated can have a strong influence on the resource efficiency of the plants and this potential can be exploited with much smaller investments than needed for the introduction of new process technologies. This aspect is the focus of Part II. In Part III we discuss physical changes of the process technology such as heat integration, synthesis and realization of optimal processes, and industrial symbiosis. The last part deals with the people that are needed to make these changes possible and discusses the path towards a resource efficiency culture. Written with industrial solutions in mind, this text will benefit practitioners as well as the academic community.

Glocalized Solutions for Sustainability in Manufacturing - Jürgen Hesselbach 2011-03-19

The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 continues a long tradition of scientific meetings focusing on the exchange of industrial and academic knowledge and experiences in life cycle assessment, product development, sustainable manufacturing and end-of-life-management. The theme "Glocalized Solutions for Sustainability in Manufacturing" addresses the need for engineers to develop solutions which have the potential to address global challenges by providing products, services and processes taking into account local capabilities and constraints to achieve an economically, socially and environmentally sustainable society in a global perspective. Glocalized Solutions for Sustainability in Manufacturing do not only involve products or services that are changed for a local market by simple substitution or the omitting of functions. Products and services need to be addressed that ensure a high standard of living everywhere. Resources required for manufacturing and use of such products are limited and not evenly distributed in the world. Locally available resources, local capabilities as well as local constraints have to be drivers for product- and process innovations with respect to the entire life cycle. The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 serves as a platform for the discussion of the resulting challenges and the collaborative development of new scientific ideas.

Accounting for the Environment - Martin Freedman 2014-10-10

Advances in Environmental Accounting and Management aims to enhance the understanding of global environmental issues and improve environmental performance and disclosures.

Material Flow Management - Bernd Wagner 2005-09-15

Material flow management offers enterprises a high potential for realizing new economic competitive advantages. The eco-efficient optimization of material flow cuts costs while simultaneously achieving long-term ecological sustainability. This book summarises the fundamental concepts and tools of material flow management, and presents contemporary methods and findings. Case studies illustrate the results from recent research projects conducted in cooperation with industrial companies.

Environmental Management Accounting Procedures and Principles - United Nations, Division for Sustainable Development Staff 2001

The Expert Working Group on Improving Government's Role in the Promotion of Environmental Management Accounting (EMA), was formed when it was realised that although a number of governments were interested in promoting EMA, there was little communication between the agencies involved. This, the first publication of the Working Group, presents the terminology and techniques used by its members. It aims to establish a common understanding of the basic concepts of EMA and provide a set of principles and procedures to guide those interested in its application.

Transition Towards Energy Efficient Machine Tools - André Zein 2012-12-16

Energy efficiency represents a cost-effective and immediate strategy of a sustainable development. Due to substantial environmental and economic implications, a strong emphasis is put on the electrical energy requirements of machine tools for metalworking processes. The improvement of energy efficiency is

however confronted with diverse barriers, which sustain an energy efficiency gap of unexploited potential. The deficiencies lie in the lack of information about the actual energy requirements of machine tools, a minimum energy reference to quantify improvement potential and the possible actions to improve the energy demand. Therefore, a comprehensive concept for energy performance management of machine tools is developed which guides the transition towards energy efficient machine tools. It is structured in four innovative concept modules, which are embedded into step-by-step workflow models. The capability of the performance management concept is demonstrated in an automotive manufacturing environment. The target audience primarily comprises researchers and practitioners challenged to enhance energy efficiency in manufacturing. The book may also be beneficial for graduate students who want to specialize in this field.

Maintaining Sustainable Accounting Systems in Small Business - Carvalho, Luísa Cagica 2018-06-15

Accounting systems and sustainability management are vital for company management and performance. This is particularly difficult for small businesses. As such, it is necessary to understand the features and issues of sustainable accounting systems, with a particular focus on small business. *Maintaining Sustainable Accounting Systems in Small Business* is a critical scholarly resource that explores sustainability accounting systems with small businesses and how the economic, social, and environmental aspects are related to each other in the company's management and performance. Featuring coverage on a broad range of topics such as management control system, integrated reporting, and small and medium enterprises, this book is geared towards entrepreneurs, business managers, academicians, business professionals, and graduate-level students seeking practical information about the different sustainable accounting systems from strategic, organizational, and accounting perspectives.

Pollution Prevention - Ryan Dupont 2016-11-18

This new edition has been revised throughout, and adds several sections, including: lean manufacturing and design for the environment, low impact development and green infrastructure, green science and engineering, and sustainability. It presents strategies to reduce waste from the source of materials development through to recycling, and examines the basic concepts of the physical, chemical, and biological properties of different pollutants. It includes case studies from several industries, such as pharmaceuticals, pesticides, metals, electronics, petrochemicals, refineries, and more. It also addresses the economic considerations for each pollution prevention approach.

Proceedings of 20th International Conference on Industrial Engineering and Engineering Management - Ershi Qi 2013-12-16

The International Conference on Industrial Engineering and Engineering Management is sponsored by the Chinese Industrial Engineering Institution, CMES, which is the only national-level academic society for Industrial Engineering. The conference is held annually as the major event in this arena. Being the largest and the most authoritative international academic conference held in China, it provides an academic platform for experts and entrepreneurs in the areas of international industrial engineering and management to exchange their research findings. Many experts in various fields from China and around the world gather together at the conference to review, exchange, summarize and promote their achievements in the fields of industrial engineering and engineering management. For example, some experts pay special attention to the current state of the application of related techniques in China as well as their future prospects, such as green product design, quality control and management, supply chain and logistics management to address the need for, amongst other things low-carbon, energy-saving and emission-reduction. They also offer opinions on the outlook for the development of related techniques. The proceedings offers impressive methods and concrete applications for experts from colleges and universities, research institutions and enterprises who are engaged in theoretical research into industrial engineering and engineering management and its applications. As all the papers are of great value from both an academic and a practical point of view, they also provide research data for international scholars who are investigating Chinese style enterprises and engineering management.

Environmental Management Accounting — Purpose and Progress - M.D. Bennett 2012-12-06

This is the second book of selected papers on environmental management accounting (EMA) which has been developed for Kluwer by the Environmental Management Accounting Network - Europe (EMAN-Eu),

drawn primarily from papers presented at EMAN-Eu, to bring together several examples of leading thinking and practice internationally in this rapidly developing area. The authors include academics, practitioners from industry, and government policy-makers, and the subjects covered range from individual company experiences to the role of government in promoting EMA in industry. The papers included in the book provide several examples of how EMA can be applied in practice both in large corporations and in small and medium-sized enterprises, and of reports on the extent of the implementation of EMA and the conditions which encourage this. The book is intended for all those interested in EMA as either researchers or practitioners. It will also be of interest both to those interested in how well-established management accounting methods can be adapted and extended in order to meet new demands on companies, and also to environmental managers interested in learning how accounting techniques can be of value in achieving environmental management objectives.

Sustainable Supply Chains - Yann Bouchery 2016-09-01

This book is primarily intended to serve as a research-based textbook on sustainable supply chains for graduate programs in Business, Management, Industrial Engineering, and Industrial Ecology, but it should also be of interest for researchers in the broader sustainable supply chain space, whether from the operations management and industrial engineering side or more from the industrial ecology and life-cycle assessment side. Finding efficient solutions towards a more sustainable supply chain is increasingly important for managers, but clearly this raises difficult questions, often without clear answers. This book aims to provide insights into these kinds of questions for students and practitioners, based on the latest academic research.

Environmental and Material Flow Cost Accounting - Christine M. Jasch 2008-11-07

Recognizing the increasing importance of environmental issues, energy prices, material availability and efficiency and the difficulty of adequately managing these issues in traditional accounting systems, several companies all over the world have started implementing "Environmental and Material Flow Cost Accounting" (EMA and MFCA). "Environmental and Material Flow Costs Accounting" explains and updates the approach developed for the United Nations Department of Economic and Social Affairs (DSD/UNDESA) and the International Federation of Accountants (IFAC) and in addition includes experiences of several case studies and recent developments regarding EMA and MFCA in national statistics and ISO standardization.

Sustainability - Scott T. Young 2012-12-05

Sustainability: Essentials for Business by Scott T. Young and Kathy Dhanda gives students a thorough understanding of the complex interaction between the needs of society versus the ecological limits on natural resources. The first survey text of its kind to provide a comprehensive treatment of the relationship between business and sustainability, this book is a must-read focusing on the three "Ps": planet, people, and profit.

Routledge Handbook of Environmental Accounting - Jan Bebbington 2021-03-31

This handbook showcases the broad spectrum of diverse approaches to environmental accounting which have developed during the last 30 years across the globe. The volume covers a range of physical issues such as water, carbon and biodiversity, as well as specific accounting matters such as management control, finance and audit. Moreover, seven chapters present environmental accounting issues that arise in the regions of Africa, Asia, Europe, MENA, North America, the Pacific and South America. The handbook also highlights future challenges in all the topic areas addressed as well as introducing new topics, such as links between environmental accounting and the circular economy, and the issues associated with animal rights. Edited by leading scholars in the area and with key contributions from across the discipline, and covering a diverse range of perspectives and locations, the volume is divided into five key parts: • Part 1: Framing the issues • Part 2: Financial accounting and reporting • Part 3: Management accounting • Part 4: Global and local perspectives • Part 5: Thematic topics in environmental accounting This handbook will act as a significant publication in drawing together the history of the field and important reference points in its future development, and will serve as a vital resource for students and scholars of environmental accounting and environmental economics.

Technology and Manufacturing Process Selection - Elsa Henriques 2013-12-19

This book provides specific topics intending to contribute to an improved knowledge on Technology

Evaluation and Selection in a Life Cycle Perspectives. Although each chapter will present possible approaches and solutions, there are no recipes for success. Each reader will find his/her balance in applying the different topics to his/her own specific situation. Case studies presented throughout will help in deciding what fits best to each situation, but most of all any ultimate success will come out of the interplay between the available solutions and the specific problem or opportunity the reader is faced with.

Design for Innovative Value Towards a Sustainable Society - Mitsutaka Matsumoto 2012-04-03

Since the first EcoDesign International Symposium held in 1999, this symposium has led the research and practices of environmentally conscious design of products, services, manufacturing systems, supply chain, consumption, as well as economics and society. EcoDesign 2011 - the 7th International Symposium on Environmentally Conscious Design and Inverse Manufacturing - was successfully held in the Japanese old capital city of Kyoto, on November 30th - December 2nd, 2011. The subtitle of EcoDesign 2011 is to "design for value innovation towards sustainable society." During this event, presenters discussed the way to achieve both drastic environmental consciousness and value innovation in order to realise a sustainable society.

Carbon and Material Flow Cost Accounting - Stefan Nertinger 2014-12-02

Stefan Nertinger entwickelt geeignete Methoden und Ansätze zur Integration von Material Flow Cost Accounting (MFCA) und Carbon Footprint (CF), um Unternehmen dabei zu unterstützen, nachhaltigen Erfolg zu erreichen. Seine drei Integrationsmodelle zeigen innovative methodische Verknüpfungen zwischen den Ansätzen der Ökobilanzierung und der Kostenrechnung. Die dargestellte Konzeption des integrierten Instruments als PDCA-im-PDCA im Nachhaltigkeitscontrolling und -management bietet das Potenzial einer kontinuierlichen Verbesserung und Weiterentwicklung der Nachhaltigkeitsleistung des Unternehmens und der Generierung nachhaltigen Erfolgs.

Environmental Accounting and Reporting - Maria-Gabriella Baldarelli 2017-04-05

This book discusses the foundations of social and environmental accounting and highlights local differences in countries like Italy and Bulgaria. It also describes the institutional environment, which affects the development and application of environmental accounting and reporting, as a basis for evaluating current achievements and the future steps that need to be taken to develop and spread environmental accounting. The book is unique in presenting exemplary cases from different emerging and developed countries. It is a valuable resource for theorists in the field, practitioners in companies, as well as investors and other stakeholders. Moreover, it provides students with the necessary theoretical constructs, empirical studies as well as practical and managerial tools to allow for a quick orientation in the methodology, techniques and selected practices used in environmental accounting and reporting.

Sustainable Logistics and Production in Industry 4.0 - Katarzyna Grzybowska 2019-11-30

This book proposes essential methods, models, and case studies for Sustainable Logistics and Production in Industry 4.0. In addition to identifying and discussing various challenges and future prospects, it also features numerous case studies and quantitative research from different sectors. The authors (which include academics and managers) present insightful tips on the technical, organizational and social aspects of implementing Sustainable Logistics and Production in Industry 4.0. In today's world, changes are coming faster and more unpredictably. Production is becoming more automated, computerized and complex. In short, Industry 4.0 is creating many new opportunities, but at the same time several new challenges. This book offers a valuable resource for all academics and practitioners who want to deepen their knowledge of Sustainable Logistics and Production in Industry 4.0.

Journal of Engineering, Management and Operations Vol. I - Wilhelm Bauer 2019-04-17

Prof. Dr.-Ing. Prof. e. h. Wilhelm Bauer ist geschäftsführender Institutsleiter des Fraunhofer-Instituts für Arbeitswirtschaft und Organisation IAO und Vorsitzender des Fraunhofer-Verbunds Innovationsforschung. Univ.-Prof. Dr.-Ing. Dr. h.c. Dipl.-Wirtsch.-Ing. Wilfried Sihm ist seit 2004 Professor an der TU Wien und seit 2008 Geschäftsführer der Fraunhofer Austria Research GmbH. Prof. Dr.-Ing. Peter Ohlhausen ist am Fraunhofer-Institut für Arbeitswirtschaft und Organisation IAO für den Bereich Forschungscoordination zuständig und Professor an der ESB.

Green ICT & Energy - Jaco H. Appelman 2013-12-16

This book provides the connection between the growing body of literature on sustainability and the topics

of energy and ICT. It aims to show how stakeholders active in this area need to play their part ensuring that the ICT-sector evolves towards a sector that can lead through “greening by IT” and also shows that it can “green its own IT” as well. This is the first book that integrates two seemingly incompatible approaches to sustainability: efficiency and effectiveness. The book builds on the efficiency initiatives already taken by industry, but it is not a “how-to-do-it manual”. It offers insight in state of the art approaches to green IT and greening by IT. Attention to important stakeholders outside the sector, e.g. policy makers and the field of education, makes this book comprehensive. A more encompassing view on ICT and sustainability is offered to the reader and, as such, managers in higher education, educators, CIO’s, policymakers and regulators are inspired to integrate their efforts and to contribute to a transition of one of the most important and prominent sectors in our global economy.

Manufacturing and Service Enterprise with Risks II - Masayuki Matsui 2014-03-10

This book presents recent work in the physics and economics of management through the developmental theory and practice of management science/operations research (MS/OR) that goes beyond the author’s earlier book on the same subject. (Volume 125 in Springer’s MS/OR series) This current work makes a useful contribution to the next-generation discrete system of science and management for a better society. The scope of the book is focused on the science and management of the 3M&I-Time system in the discrete world, where that system is a complex class consisting of humans, material/machine, money and time. The system is treated by a stochastic/intelligence (medium) approach. The science of this system is the interdisciplinary science of physics, management, economics and related fields and is based on synthesis and intelligence in the new discrete world. Here, this domain is referred to as a discrete and complex science (of physics and economics) in industry and society. Another domain, which is referred to as higher management science and operations in this book, stems from the change in traditional management to higher management driven by the power of information and communications technology (ICT) in the cloud computing/global age. This domain exists to meet the needs of logic for real-time/systematic decisions and management in a changeable, speeded-up, and risk environment.

Environment and Innovation - Clara Inés Pardo Martínez 2021-09-15

This book seeks to show the role of sustainability and innovation in the business and productive sector as good strategy to improve performance and contribute to growth and sustainable development through innovative strategies applied to the management process. Different public and private organizations seek to maintain their business and market share, while developing strategies to improve environmental performance through innovation and address new challenges that seek a productive sector responsible on environmental issues. This book offers an analysis of the relationship between sustainability and innovation in production with the aim to offer strategies to improve sustainability performance.

Accounting for Biodiversity - Michael Jones 2014-06-27

‘Biodiversity’ at its simplest, refers to the variety of species inhabiting Planet Earth. It is essential to the well-being of the planet. There is now a scientific consensus around the current ongoing crisis in biodiversity arising from both climate change and human activities. Experts believe we are in the middle of a mass extinction of biodiversity with devastating consequences for our planet. Accounting for Biodiversity explores the need for companies to actively protect, conserve and improve biodiversity within their sphere of operation. The 14 chapters written by a selected team of experts investigate the ways in which companies are embracing their responsibility through a variety of biodiversity initiatives and innovative models designed to improve the recording, reporting and valuing of biodiversity. Global case studies look at biodiversity accounting in Africa, Asia, Australasia, Europe and South America. Overall, this book provides a comprehensive set of reflections on accounting for biodiversity and recommendations for the future. This book is essential reading for all those interested in the contribution that accounting can make to the preservation of biodiversity. As we see increasing awareness of the importance of sustainability and ecological responsibility in business activity it is relevant and should prove informative to students, managers, accountants and those in business more generally. It is also important for all those interested in conserving biodiversity.

Outlines and Highlights for Environmental and Material Flow Cost Accounting - Cram101 Textbook Reviews 2011-07-01

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9781402090271 9781402090288 .

Environmental Management Accounting for Cleaner Production - Stefan Schaltegger 2008-10-10 Sustainability requires companies to develop in an economically, environmentally and socially sustainable manner. Corporate sustainable development in turn requires movement towards cleaner production. In order to recognize the potential from cleaner production - reduced costs and fewer environmental impacts through the reduced use of materials - environmental management accounting (EMA) is a necessary information management tool. Environmental Management Accounting for Cleaner Production reveals a set of tools for companies to collect, evaluate and interpret the information they need to estimate their potential to use cleaner production to realize cost savings and to make the best decisions about the available cleaner production options. EMA is therefore the key for driving environmental progress, cost savings, increased competitiveness and corporate sustainability through the means of cleaner production. *The Oxford Handbook of Business and the Natural Environment* - Pratima Bansal 2012

This Handbook discusses the main issues, research, and theory on business and the natural environment, and how they impact on different business functions and disciplines

International Conference on Applications and Techniques in Cyber Intelligence ATCI 2019 - Jemal H. Abawajy 2019-07-31

This book presents innovative ideas, cutting-edge findings, and novel techniques, methods, and applications in a broad range of cybersecurity and cyberthreat intelligence areas. As our society becomes smarter, there is a corresponding need to be able to secure our cyberfuture. The approaches and findings described in this book are of interest to businesses and governments seeking to secure our data and underpin infrastructures, as well as to individual users.

Research Anthology on Business Continuity and Navigating Times of Crisis - Management Association, Information Resources 2022-01-07

When the COVID-19 pandemic caused a halt in global society, many business leaders found themselves unprepared for the unprecedented change that swept across industry. Whether the need to shift to remote work or the inability to safely conduct business during a global pandemic, many businesses struggled in the transition to the “new normal.” In the wake of the pandemic, these struggles have created opportunities to study how businesses navigate these times of crisis. The Research Anthology on Business Continuity and Navigating Times of Crisis discusses the strategies, cases, and research surrounding business continuity throughout crises such as pandemics. This book analyzes business operations and the state of the economy during times of crisis and the leadership involved in recovery. Covering topics such as crisis management, entrepreneurship, and business sustainability, this four-volume comprehensive major reference work is a valuable resource for managers, CEOs, business leaders, entrepreneurs, professors and students of higher education, researchers, and academicians.

Construction for a Regenerative Future - Urban Persson 2022-12-09

This is a book about how to manage the processes involved in a construction project towards a sustainable and regenerative endproduct. It covers key project management concepts and links the construction process to the objectives of UN SDGs and beyond zero carbon emissions throughout the whole project life cycle. This introductory textbook is written from a project manager's perspective including considerations of circular economy throughout the construction process focusing on a regenerative or restorative outcome. The book examines the importance of the type and purpose of a building, circularity and de-construction, the site, the client and its organisation, stakeholder considerations, the project organisation, the procurement of consultants and contractors, project performance during design and construction, project hand-over to the client, and the building's operation and maintenance. It also illustrates how to verify the building using existing environmental certifications, how to calculate carbon emissions, and how to deal with used construction materials from a circular economy perspective. International examples of best practice are included throughout, and the book is structured in a way which students will find engaging and easy to follow. This is an ideal textbook for use on construction, architecture, and engineering programmes

where the emphasis must urgently be placed on students fostering regenerative construction solutions in their coming professional life.

Environmental Management Accounting: Informational and Institutional Developments - M.D. Bennett 2006-04-11

Environmental Management Accounting (EMA) is increasingly recognised as a distinguished tool of environmental management. It helps to integrate a company's environmental and business interests, whereby enhancing corporate eco-efficiency in terms of reducing environmental costs or making one's product more competitive. This book gives a comprehensive coverage of the state of the art. It presents a number of EMA frameworks that companies can take as a basis for implementing their own specific EMA structures. Besides discussing environmental accounting issues within conventional management accounting, it gives a detailed picture of materials flow (cost) accounting as an alternative way of looking at the ecology-economy relationships at the corporate level. A fascinating case study shows how a large company (Siemens) applies materials flow accounting and what benefits it entails.

The Routledge Companion to Cost Management - Falconer Mitchell 2013-08-22

Over the last two decades, cost management has been an area of dynamic change and development. This is evident in the extensive inventory of new, high-profile techniques that have emerged. With cost management now firmly established as a distinct sub-discipline within management accounting, The Routledge Companion to Cost Management is a timely reference volume covering both practical developments and research in this area. Topics covered include: Cost control issues Cost analysis and decision making Cost management systems Environmental cost management With chapters from an international team of contributors, this prestigious companion will prove an indispensable addition to any library with aspirations of keeping up-to-date with the world of accounting.

Sustainability Assessment of Renewables-Based Products - Jo Dewulf 2016-01-19

Over the past decade, renewables-based technology and sustainability assessment methods have grown tremendously. Renewable energy and products have a significant role in the market today, and the same time sustainability assessment methods have advanced, with a growing standardization of environmental sustainability metrics and consideration of social issues as part of the assessment. Sustainability Assessment of Renewables-Based Products: Methods and Case Studies is an extensive update and sequel to the 2006 title Renewables-Based Technology: Sustainability Assessment. It discusses the impressive evolution and role renewables have taken in our modern society, highlighting the importance of

sustainability principles in the design phase of renewable-based technologies, and presenting a wide range of sustainability assessment methods suitable for renewables-based technologies, together with case studies to demonstrate their applications. This book is a valuable resource for academics, businesses and policy makers who are active in contributing to more sustainable production and consumption. For more information on the Wiley Series in Renewable Resources, visit www.wiley.com/go/rrs Topics covered include: The growing role of renewables in our society Sustainability in the design phase of products and processes Principles of sustainability assessment Land use analysis Water use analysis Material and energy flow analysis Exergy and cumulative exergy analysis Carbon and environmental footprint methods Life Cycle Assessment (LCA), social Life Cycle Assessment and Life Cycle Costing (LCC) Case studies: renewable energy, bio-based chemicals and bio-based materials.

Handbook of Research on Climate Change and the Sustainable Financial Sector - Olarewaju, Odunayo Magret 2021-06-25

Climate change is a major problem, generating both risks and opportunities that will have a direct impact on the economy and the financial sector. In recent years, climate change has threatened both the survival of the financial system and economic development. The growing occurrence of extreme climate events combined with the imprudent nature of economic growth can cause unsustainable levels of harm to the financial sectors. On the other hand, it presents a range of new business challenges. In contrast to the most evident physical risks, companies are vulnerable to transformational risks that arise from the reaction of society to climate change, such as technological change, regulation and markets that can boost the cost of doing business, threats to the profitability of existing goods, or effects on the value of the asset. Climate change also offers new business opportunities, and it has made research in the context of a sustainable financial sector indispensable. The Handbook of Research on Climate Change and the Sustainable Financial Sector focuses on the impacts of climate change on various sectors of the world economy. This book covers how businesses can improve their sustainability, the impact of climate change on the financial sector, and specifically, the impacts on financial services, supply chains, and the socio-economic status of the world. Beyond focusing on the impacts to the financial industry itself, this book assesses how climate change in the financial sector affects the well-being of society in areas such as unemployment, economic recessions, decreases in consumer purchases, and more. This book is essential for stockbrokers, business managers, directors, fund managers, financial analysts, consultants and actuaries, institutional investors, policymakers, practitioners, researchers, academicians, and students interested in a comprehensive view of the impact of climate change on the financial sector.