

Life Cycle Assessment for Mobile Products

■ Background

Samsung has developed strong technical expertise in assessing the life cycle environmental impacts of its product lines. The environmental life cycle assessment (LCA) has been for the Samsung Galaxy S21 series (Galaxy S21 5G/5G+ /Galaxy S21 FE 5G), the A22 series (Galaxy A22 5G), the W22 series (Galaxy Watch 4), and the Z Fold 2 series (Galaxy Z Fold 2 5G). The assessment considers potential environmental impacts across the whole life cycle including pre-manufacturing, product manufacturing, distribution, product use, and disposal.

Environmental quality: The analysis methodology has been completed according to International Standard ISO 14040 series. Samsung has used Simapro[®] software and a detailed LCA life database to measure environmental impacts using a wide range of data categories including: Production of external (BOA) parts and components, logistics, energy consumption, imported raw materials, life span, and disposal prior to after-life separation of products. The subjects of the LCA considered and quantified 17 potential environmental impact categories including global warming, acidification, eutrophication, ozone depletion, acidification, acidification, and ozone layer depletion where each impact category has been assessed for each life cycle stage. Based on the data collection, it is confirmed that potential development plans which actively improve the environmental specifications of our products.

■ Calculation basis

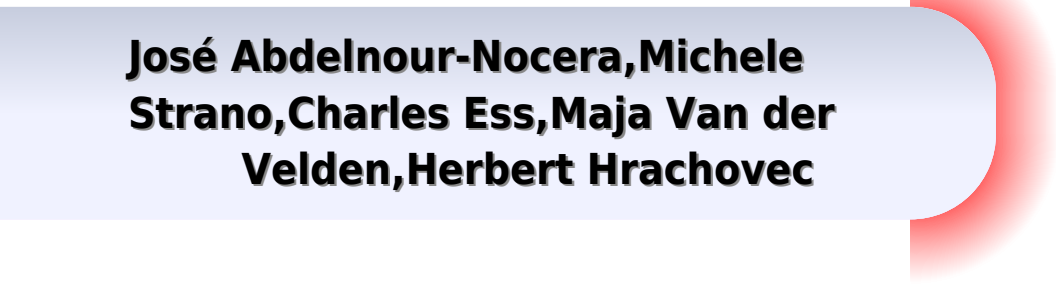
Model 1	Galaxy S21 5G/5G+ (444g/200g)
Version 1	Version 1.1
Analysis Unit	Life cycle environmental impact (calculation unit: 1 functional unit = 1 smartphone) (256,000 h) as provided by Simapro 8.10.0.0 data
Calculation	Simapro 8.10.0.0

■ System boundary of LCA

Pre-manufacturing	Parts and materials, including transportation and manufacturing suppliers Samsung factory
Manufacturing	Production by Samsung Electronics (Data collected period: 1 month ahead of shipment)
Distribution	From China to customers' destinations
Usage	Usage
Disposal	Waste treatment, recycling and disposal

Samsung Life Cycle Assessment For Mobile Phones

**José Abdelnour-Nocera, Michele
Strano, Charles Ess, Maja Van der
Velden, Herbert Hrachovec**



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Product Design and Life Cycle Assessment Ireneusz Zbicinski, 2006 *Circular Business Models in the Mobile Phone Industry* David Watson, Anja Charlotte Gylling, Naoko Tojo, Harald Throne-Holst, Bjørn Bauer, Leonidas Milios, 2017-11-30 The circular economy offers opportunities to reduce resource use and waste whilst providing business opportunities. This is also true in the mobile phone industry that has been characterised by high rates of product obsolescence. The emergence of the smart phone has changed the landscape making repair, refurbishment and resale attractive to businesses and consumers. Moreover, emerging modular phone design should allow functional upgrades with low resource wastage. This report investigates the adoption of circular business models within Nordic markets. Producers, retailers, refurbishers, recyclers and resellers tell of their motivation, experiences and the challenges that they face. A special look is taken at consumer and waste law and the challenges and opportunities they represent. The report ends with 17 policy proposals that can accelerate the adoption of circularity in the sector.

Designing with Photovoltaics Angèle Reinders, 2020-04-30 Designing with Photovoltaics covers a broad range of topics related to the design of products, buildings and vehicles with integrated photovoltaic (PV) technologies including storage aspect. It enables the reader to easily design new products, buildings and vehicles through use of innovative PV products. Diverse categories of product integrated PVs are discussed including applications of solar power for mobility and building integrated systems along with design and manufacturing related information about solar cells. Illustrating design cases of various PV powered products, special attention is paid to end users and environmental aspects of PV applications. Aimed at senior undergraduates, graduates and professionals in electrical engineering, architecture, design, physics, mechanical engineering and those specifically studying photovoltaics, it covers the different product integrated photovoltaics (PIPV) with a focus on design and manufacturing. Presents comprehensive overview of all aspects of designing with photovoltaics. Includes product integrated PV, building integrated PV and solar powered mobility concepts. Contains real design cases showing how to design with photovoltaics. Discusses context of environmental issues and user aspects.

Principles of Business & Management Oliver Laasch, 2024-03-07 In light of seismic global events including the Covid 19 pandemic, the Black Lives Matter movement, the war in Ukraine and extreme weather incidents propelled by climate change, there has never been a more important time to learn about management in ways that not only benefit business but also help confront the world's challenges, support people and planet and contribute to peace and prosperity for all. Fully revised and once again endorsed by the UN's Principles for Responsible Management Education (PRME) initiative, this popular textbook equips you with the skills to become a responsibly, ethically and sustainably minded business professional. Featuring two brand new chapters on Behaving and Digitalizing, over 50 new and updated case studies, pioneer interviews and practitioner profiles as well as a wide range of exercises and worksheets, the book also integrates the UN's Sustainable Development Goals (SDGs) to help promote sustainable development as essential to business and

management today This essential textbook can be used for a wide range of courses from introductory business management to responsible sustainable management business ethics business and society and corporate social responsibility CSR Oliver Laasch is a Chaired Professor of Responsible Management at ESCP Business School and an Adjunct Professor of Social Entrepreneurship at the University of Manchester [Sustainable Futures With Life Cycle Assessment in Industry 5.0](#) Wongmahesak, Kittisak, Karim, Fazida, Wongchestha, Nititorn, 2025-05-08 As Industry 5.0 prioritizes human centric sustainable and resilient production life cycle assessment plays a crucial role in evaluating environmental impacts across industries By integrating life cycle assessment businesses can make data driven decisions to reduce waste optimize resource use and minimize carbon footprints This approach supports the transition toward circular economies ensuring that technological advancements align with ecological responsibility As sustainability becomes a global priority life cycle assessment empowers industries policymakers and consumers to drive meaningful change toward a more sustainable future Sustainable Futures With Life Cycle Assessment in Industry 5.0 explores life cycle assessment in Industry 5.0 emphasizing sustainable production resource optimization and environmental impact reduction Through expert insights and case studies it provides a comprehensive guide for integrating life cycle assessment into next generation industrial practices to drive sustainability and innovation Covering topics such as recommendation systems community product marketing and currency exchange rates this book is an excellent resource for economists business leaders computer scientists professionals researchers scholars academicians and more *Principles of Management* Oliver Laasch, 2021-03-10 Following the impacts of the financial crisis and growing awareness around climate change this accessible textbook aimed at Introduction to Management courses empowers students to become responsible managers in today's modern world *Photovoltaic Solar Energy* Angèle Reinders, Pierre J. Verlinden, Wilfried van Sark, Alexandre Freundlich, 2017-01-03 Solar PV is now the third most important renewable energy source after hydro and wind power in terms of global installed capacity Bringing together the expertise of international PV specialists Photovoltaic Solar Energy From Fundamentals to Applications provides a comprehensive and up to date account of existing PV technologies in conjunction with an assessment of technological developments Key features Written by leading specialists active in concurrent developments in material sciences solar cell research and application driven R chalcoenide thin film solar cells thin film silicon based PV technologies organic PV and III Vs PV concentrator technologies space technologies and economics life cycle and user aspects of PV technologies Each chapter presents basic principles and formulas as well as major technological developments in a contemporary context with a look at future developments in this rapidly changing field of science and engineering Ideal for industrial engineers and scientists beginning careers in PV as well as graduate students undertaking PV research and high level undergraduate students **Network Optimization in Intelligent Internet of Things Applications** Payal Khurana Batra, Pawan Singh Mehra, Sudeep Tanwar, 2024-09-25 Network Optimization in Intelligent Internet of Things Applications Principles and

Challenges sheds light on the optimization methods that form the basis of effective communication between networked devices. It is an excellent resource as it provides readers with a thorough understanding of the methods, ideas, and tactics essential to attaining seamless connectivity and improving performance. This book presents the fundamental ideas that govern network optimization, from maximizing throughput and lowering latency to handling a variety of communication protocols and minimizing energy use. It also addresses scalability issues, security flaws, and constantly changing IoT environments along with optimization techniques. This book uses cutting edge research and real world examples to give readers the knowledge and skills to address the complex problems associated with network optimization in intelligent IoT applications. It also examines machine learning driven predictive analytics, robust security protocols, flexible routing algorithms, and the integration of edge computing, all crucial instruments for overcoming obstacles and attaining peak performance. This book provides a comprehensive understanding of the principles, challenges, and cutting edge solutions in IoT network optimization for all kinds of readers, whether it is students, academicians, researchers, or industry professionals. This book unleashes the potential of networked smart devices, which can be unleashed in various sectors.

Digital Business and Sustainable Development Yongrok Choi, 2017-03-16 The Internet has ushered in a new era in the economies of networking. With the increasing need for optimization based on these network economies, the IT based e business has become a platform for study as well as daily practice. In a similar vein, global warming has raised many issues which come into conflict with traditional research and policies. The Internet revolution has also shifted our society from a government and company led economy to a netizen and consumer led business world. This book enlightens us on why a harmonized participation of traditional network members or interested groups is necessary and how we can create values from diverse fields of interests and objectives, including the corporate social responsibility (CSR) and eco friendly productivity. Digital Business and Sustainable Development integrates the platforms from these two fields of study based on the comparative analysis of Asian and other developing countries.

Designing Sustainable Technologies, Products and Policies Enrico Benetto, Kilian Gericke, Mélanie Guiton, 2018-07-03 This open access book provides insight into the implementation of Life Cycle approaches along the entire business value chain, supporting environmental, social, and economic sustainability related to the development of industrial technologies, products, services, and policies, and the development and management of smart agricultural systems, smart mobility systems, urban infrastructures, and energy for the built environment. The book is based on papers presented at the 8th International Life Cycle Management Conference that took place from September 3-6, 2017 in Luxembourg and which was organized by the Luxembourg Institute of Science and Technology (LIST) and the University of Luxembourg in the framework of the LCM Conference Series.

Materials Chemistry Bradley D. Fahlman, 2023-03-12 This award winning textbook delivers an earnest and comprehensive treatment of the rapidly evolving field of Materials Chemistry. It addresses inorganic, organic, and nano based materials from a structure vs. property treatment, providing a suitable breadth

and depth coverage of the field in a concise and accessible format The updated 4th edition features significant updates to glasses and ceramics solid state impurities nanomaterial toxicity as well as materials used in energy storage photovoltaic and electronics applications Advanced fabrication techniques such as additive manufacturing 3 D printing and dynamic light scattering DLS characterization of suspended nanoparticles are now also included This new edition also expands the coverage of sustainability and life cycle analysis of increasing importance for a world plagued with the effects of climate change Recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association TAA Fahlman's Materials Chemistry is ideal for upper level undergraduate students as well as first year graduate students in chemistry physics or engineering fields and may also serve as a valuable reference to industrial researchers Each chapter concludes with a section that describes important materials applications and an updated list of thought provoking questions

Sustainable ICTs and Management Systems for Green Computing Hu, Wen-Chen, Kaabouch, Naima, 2012-06-30 This book focuses on information technology using sustainable green computing to reduce energy and resources used Provided by publisher

Environment and the OECD Guidelines for Multinational Enterprises Corporate Tools and Approaches OECD, 2005-09-05 This book provides an overview of the main tools and approaches available to enterprises wishing to put the Environment chapter of the OECD Guidelines into practice

Recent Developments In Structural Health Monitoring And Assessment - Opportunities And Challenges: Bridges, Buildings And Other Infrastructures Achintya Halder, Abdullah Abdulamir Abdullah Al-hussein, 2022-01-19 This is a follow up to Health Assessment of Engineered Structures It incorporates the most recent developments in health assessment and monitoring of infrastructures covering several advanced conceptual frameworks different types of sensors and application potentials Opportunities and challenges in theoretical numerical and experimental investigations generally overlooked in the profession are discussed Also included are various types of Bayesian filtering concepts improving the commonly used techniques Showcasing a multi faceted technology based development in health assessment of infrastructures several new approaches for health assessment are presented to assess the health of masonry structures riveted steel railway bridges and more such as the use of

Re-engineering Manufacturing for Sustainability Andrew Y. C. Nee, Bin Song, Soh-Khim Ong, 2013-04-08 This edited volume presents the proceedings of the 20th CIRP LCE Conference which cover various areas in life cycle engineering such as life cycle design end of life management manufacturing processes manufacturing systems methods and tools for sustainability social sustainability supply chain management remanufacturing etc

Culture, Technology, Communication. Common World, Different Futures José Abdelnour-Nocera, Michele Strano, Charles Ess, Maja Van der Velden, Herbert Hrachovec, 2016-11-26 This volume constitutes the refereed post conference proceedings of the 10th IFIP WG 13.8 International Conference on Culture Technology and Communication CaTaC 2016 held in London UK in June 2016 The 9 revised full papers were carefully reviewed and selected from 22 submissions The papers explore the intersections between

culture technology and communication applying different theoretical and methodological perspectives genres and styles They deal with cultural attitudes towards technology and communication interaction design and international development

Sustainable IT Playbook for Technology Leaders Niklas Sundberg, 2022-10-14 At a critical point in human history this book presents proven ways to gain the skills needed to develop sustainable IT practices and set yourself apart as a progressive technology leader Key Features Execute a sustainable IT strategy with proven methods and real world use cases Progress as a sustainable IT advocate and set yourself apart from other senior IT leaders Increase your chances of receiving executive buy in on your sustainable IT strategy Book Description We are at a critical point in human history Humanity is under threat but all is not lost We can take action But how Sustainable IT Playbook for Technology Leaders will show you how It will walk you through the construction and implementation of a sustainable IT strategy and enable you to do your bit for the future of mankind The book is split into three parts Part I details the why and the clear and present danger that humanity faces today the climate crisis How did we get here what are the immediate threats what are the planetary boundaries that we need to peel back to safe levels and what impact does IT have on society at large Part II will focus on the what It examines the nitty gritty details of what we can do to unlock significant returns on sustainable investments toward a more sustainable future Part III the final part of the book focuses on the how How do you turn your ideas into action What do you need to do to establish your baseline and your direction of travel towards your objective This part provides tangible case studies and explains how you can start your journey today to begin delivering global and impactful objectives By the end of this book you ll be able to plan implement and communicate a sustainable IT strategy and set yourself apart as a progressive technology leader What you will learn Discover why IT is a major contributor to carbon emissions Explore the principles and key methods of sustainable IT practices Build a robust sustainable IT strategy based on proven methods Optimize and rationalize your code to consume fewer resources Understand your energy consumption patterns Apply a circular approach to the IT hardware life cycle Establish your sustainable IT baseline Inspire and engage employees customers and stakeholders Who this book is for This book is for executive IT leaders such as CIOs CDOs and CTOs dedicated to influencing inspiring and engaging businesses organizations and individuals to reduce their carbon footprint through sustainable IT practices *Web-Based Green Products Life Cycle Management Systems: Reverse Supply Chain Utilization* Wang, Hsiao-Fan, 2008-12-31 Provides a review of current and potential research in green management and control **Handbook of Research on Intelligent Techniques and Modeling Applications in Marketing Analytics** Kumar, Anil, Dash, Manoj Kumar, Trivedi, Shrawan Kumar, Panda, Tapan Kumar, 2016-10-25 The success of any organization is largely dependent on positive feedback and repeat business from patrons By utilizing acquired marketing data business professionals can more accurately assess practices services and products that their customers find appealing The Handbook of Research on Intelligent Techniques and Modeling Applications in Marketing Analytics features innovative research and implementation

practices of analytics in marketing research Highlighting various techniques in acquiring and deciphering marketing data this publication is a pivotal reference for professionals managers market researchers and practitioners interested in the observation and utilization of data on marketing trends to promote positive business practices **Greener Products** Al Iannuzzi, 2017-08-03 Written by a renowned sustainability expert Greener Products The Making and Marketing of Sustainable Brands Second Edition makes the case for why the people and the planet need products to be made in a different more sustainable way The growth of the global middle class with an additional 3 billion people expected to enter the consumer market by 2030 is putting an unprecedented demand on resources and straining the global supply of raw materials fossil fuels food and water This book provides insights on how to raise the bar on product development and investigates the best practices for making and marketing sustainable brands Over 40 case studies are analyzed in this book and summarized for the reader to easily see what it is that makes leading companies successful Analysis on marketing campaigns and greener product development range from leading companies like Apple Nike Samsung Electronics BASF GE Johnson Johnson Unilever and Method New updated content in this second edition includes New developments like the United Nations Sustainable Development Goals with concepts of biomimicry circular economy emerging issues management and eco innovation Novel tools and examples for bringing sustainable products to market New chapter dedicated to natural capital Analysis of current green marketing methods and market trends Best practices for making and marketing sustainable brands For more information visit the author s book website at www.greenerproducts.biz

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