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nils tönshoff presents a new framework of the machine tool building and selling process that accounts for optimized cross functional decision making in module design machine tool manufacturing and product marketing

this book reports on cutting edge design methods and tools in industrial engineering advanced findings in mechanics and material science and relevant technological applications topics span from geometric modelling tools to applications of virtual augmented reality from interactive design to ergonomics human factors research and reverse engineering further topics include integrated design and optimization methods as well as experimental validation techniques for product processes and systems development such as additive manufacturing technologies this book is based on the international conference on design tools and methods in industrial engineering adm 2019 held on september 9 10 2019 in modena italy and organized by the italian association of design methods and tools for industrial engineering and the department of engineering enzo ferrari of the university of modena and reggio emilia italy it provides academics and professionals with a timely overview and extensive information on trends and technologies in industrial design and manufacturing

software engineering fundamental approach is a comprehensive and well structured textbook that serves as a foundational guide for students educators and professionals in the field of computer science and engineering this book presents a balanced blend of theoretical concepts and practical applications essential for understanding the complete software development lifecycle beginning with the basics of software engineering the book covers essential topics such as software development processes life cycle models requirements engineering system design both function oriented and object oriented project planning testing strategies quality assurance frameworks and software metrics special emphasis is given to standard models like waterfall spiral prototype and iterative enhancement as well as modern practices aligned with ieee standards and sei cmm models richly illustrated with real world examples diagrams and step by step case studies the book also explores critical aspects like software project feasibility srs documentation verification and validation and metrics like halstead s software science and function point analysis its simplified language and structured content make it highly suitable for undergraduate and postgraduate learners as well as aspirants of competitive exams like gate nptel and ugc net

the three volume set lncs 10277 10279 constitutes the refereed proceedings of the 11th international conference on universal access in human computer interaction uahci 2017 held as part of the 19th international conference on human computer interaction hci 2017 in vancouver bc canada in july 2017 jointly with 14 other thematically similar conferences the total of 1228 papers presented at the hci 2017 conferences were carefully reviewed and selected from 4340 submissions the papers included in the three uahci 2017 volumes address the following major topics design for all methods and practice accessibility and usability guidelines and evaluation user and context modelling and monitoring and interaction adaptation design for children sign language processing universal access to virtual and augmented reality non visual and tactile interaction gesture and gaze based interaction universal access to health and rehabilitation universal access to education and learning universal access to mobility universal access to information and media and design for quality of life technologies

this open access book addresses the issue of diffusing sustainable energy access in low and middle income contexts access to energy is one of the greatest challenges for many people living in low income and developing contexts as around 1.4 billion people lack access to electricity distributed renewable energy systems are considered a promising approach to address this challenge and provide energy access to all however even if promising the implementation of these systems is not always straightforward the book analyses discusses and classifies the promising sustainable product service system s pss business models to deliver distributed renewable energy systems in an effective efficient and sustainable way its message is supported with cases studies and examples discussing the economic environmental and socioethical benefits as well as its limitations and barriers to its implementation an innovative design approach is proposed and a set of design tools are supplied enabling readers to create and develop sustainable product service system s pss solutions to deliver distributed renewable energy systems practical applications of the book s design approach and tools by companies and practitioners are discussed and the book will be of interest to readers in design industry governmental institutions ngos as well as researchers

dieses lehrbuch gibt eine einführung in verfahren zum systematischen entwurf eingebetteter systeme es handelt sich dabei um systeme die in einen technischen kontext eingebettet und aus optimalitätsgründen hinsichtlich ihrer aufgaben fähigkeiten schnittstellen und einsatzgebiete spezialisiert sind was im allgemeinen eine realisierung aus kooperierenden hardware und softwarekomponenten erfordert wichtige einsatzgebiete sind die automobil und unterhaltungselektronik sowie die kommunikations und medizintechnik alle verfahren werden in einer einheitlichen notation für hard und software beschrieben wobei die wesentlichen inhalte von der modellierung bis hin zur codegenerierung reichen auf grund der steigenden bedeutung eingebetteter systeme stellt dieses buch unentbehrliches wissen für studierende der informatik elektrotechnik informationstechnik und mechatronik zusammen und ist zugleich ein wertvolles referenz und nachschlagewerk sowohl für forschler als auch für entwickler eingebetteter systeme

this proceedings volume presents the latest research from the worldwide mass customization personalization and co creation mcpc community bringing together new thoughts and results from various disciplines within the field the chapters are based on papers from the mcpc 2015 conference where the emphasis was placed on managing complexity mcpc is now beginning to emerge in many industries as a profitable business model but customization and personalization go far beyond the sheer individualization of products and become an extension of current business models and production styles this book covers topics such as complexity management of knowledge based systems in manufacturing design and production sustainable mass customization choice navigation and product modeling the chapters are contributed by a wide range of specialists offering cutting edge research as well as insightful advances in industrial practice in key areas the mcpc 2015 conference had a strong focus on real life mcpc applications and this proceedings volume reflects this mcpc strategies aim to profit from

the fact that people are different their objective is to turn customer heterogeneities into profit opportunities hence addressing the current trend of long tail business models mass customization means to provide goods and services that best serve individual customers personal needs with near mass production efficiency this book brings together the latest from mcpc thought leaders entrepreneurs technology developers and researchers that use these strategies in practice

this book focuses on a range of topics in design such as universal design design for all digital inclusion universal usability and accessibility of technologies independently of people s age economic situation education geographic location culture and language it especially focuses on accessibility for people with auditory cognitive neurological and visual impairments ageing populations and mobility for physical special needs the book explores some of the overlaps between inclusive design and web accessibility to help managers designers developers policy makers and researchers optimize their efforts in these overlapping areas based on the ahfe 2016 international conference on design for inclusion held on july 27 31 2016 in walt disney world florida usa this book discusses new design technologies highlighting various requirements of individuals within a community thanks to its multidisciplinary approach the book represents a useful resource for readers with different kinds of backgrounds and provides them with a timely practice oriented guide to design for inclusion

this book provides a comprehensive overview of key technologies being used to address challenges raised by continued device scaling and the extending gap between memory and central processing unit performance authors discuss in detail what are known commonly as more than moore mtm technologies which add value to devices by incorporating functionalities that do not necessarily scale according to moore s law coverage focuses on three key technologies needed for efficient power management and cost per performance novel memories 3d integration and photonic on chip interconnect

these volumes review late 1980s early 1990s state of the art developments in computer aided design and analysis techniques contributions from researchers and practitioners include discussions of parallel algorithms and fundamental operations in cryptography systolic arrays and pipelined designs

visual j previously code named jakarta combines the power of the java language with easy to use drag and drop visual interface design tools for anyone who wants to quickly learn visual j this guidebook takes you to the head of the pack fast after an introduction the book teaches you the basics of using visual j then gives you the advanced visual j tools and techniques you ll need for the most sophisticated applications

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