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the 19th cirp conference on life cycle engineering continues a strong tradition of scientific meetings in the areas of sustainability and engineering within the community of the international academy for production engineering cirp the focus of the conference is to review and discuss the current developments technology improvements and future research directions that will allow engineers to help create green businesses and industries that are both socially responsible and economically successful the symposium covers a variety of relevant topics within life cycle engineering including businesses and organizations case studies end of life management life cycle design machine tool technologies for sustainability manufacturing processes manufacturing systems methods and tools for sustainability social sustainability and supply chain management

handbook of dehumidification technology is a handbook of dehumidifiers and how they work this manual describes the principles of dehumidification and looks at the domestic and industrial applications of dehumidifiers along with design considerations for refrigerant dehumidifiers the use of dehumidification in swimming pools and for food and flower storage is also discussed this reference

guide is comprised of 11 chapters and begins with an introduction to dehumidification paying particular attention to how it addresses the problems created by high water vapor content in air the historical development of air drying and the use of psychrometric charts to describe the state of damp air as well as to illustrate ways of lowering the relative humidity of moist air are also considered the next chapter presents three methods of removing moisture from air sorbent dehumidification refrigerant dehumidification and air cycle dehumidification the reader is also introduced to design considerations for refrigerant dehumidifiers domestic applications of dehumidifiers installation of dehumidifiers in a swimming pool and industrial dehumidification the final chapter is devoted to additional sources of information on dehumidifiers and dehumidification including journals professional bodies and research this monograph will be a valuable resource for technicians and others interested in humidity control

this handbook now as second edition continues to comprehensively cover the cutting edge trends and techniques essential for the integration of nondestructive evaluation nde into the changing face of the modern industrial landscape in particular it delves into the marriage of nde with new techniques in e g data mining and management cloud computing autonomous operation ai for data analysis and decision making as well as cyber security highlighting the potential for cyber physical controlled production and discussing the myriad possible applications across many different industries the handbook of nde 4 0 centers around the industry 4 0 philosophy the next generation of industrial production encompassing all aspects of networking across all industrial areas it discusses the adaptation of existing nde techniques to emerging new technological areas such as 3d printing via the introduction of cyber systems into the inspection and maintenance processes in addition the handbook covers topics such as the management and processing of big data with respect to real time monitoring of structural integrity and reliable inspection of individual components remote nde to include competence not available on site will be a potential technique to increase reliability of nde inspections by integrating additional specialist inputs into the decision process by methods such as telepresence thereby better leveraging the scarce resources of senior inspectors into industrial inspections at multiple sites the handbook also includes non technical topics of direct relevance to leadership management and adoption of this new philosophy the handbook houses a wealth of essential information to help academics industry professionals regulatory bodies and entrepreneurs navigate through this burgeoning new field the material in this handbook is presented with the intention of ultimately improving human safety through reliable inspections and dependable maintenance of critical infrastructure while also enhancing business value through reduced downtime affordable maintenance and talent optimization the content is positioned to inspire nde professionals to think broadly in terms of their role as continuous value add rather than discrete decision support this second edition contains many new chapters and half of all chapters were revised from the 1st edition based on the engagement of authors through global platforms such as the icdnt specialist international group on nde 4 0 and the international conference series on nde 4 0

this handbook is the ultimate definitive guide that covers key fundamentals and advanced applications for additive manufacturing the handbook has been structured into seven sections comprising of a thorough introduction to additive manufacturing design and data processes materials post processing testing and

inspection education and training and applications and case study examples the general principles and functional relationships are described in each chapter and supplemented with industry use cases the aim of this book is to help designers engineers and manufacturers understand the state of the art developments in the field of additive manufacturing although this book is primarily aimed at students and educators it will appeal to researchers and industrial professionals working with technology users machine or component manufacturers to help them make better decisions in the implementation of additive manufacturing and its applications

the springer handbook of augmented reality presents a comprehensive and authoritative guide to augmented reality ar technology its numerous applications and its intersection with emerging technologies this book traces the history of ar from its early development discussing the fundamentals of ar and its associated science the handbook begins by presenting the development of ar over the last few years mentioning the key pioneers and important milestones it then moves to the fundamentals and principles of ar such as photogrammetry optics motion and objects tracking and marker based and marker less registration the book discusses both software toolkits and techniques and hardware related to ar before presenting the applications of ar this includes both end user applications like education and cultural heritage and professional applications within engineering fields medicine and architecture amongst others the book concludes with the convergence of ar with other emerging technologies such as industrial internet of things and digital twins the handbook presents a comprehensive reference on ar technology from an academic industrial and commercial perspective making it an invaluable resource for audiences from a variety of backgrounds

power electronics design handbook covers the basics of power electronics theory and components while emphasizing modern low power components and applications coverage includes power semiconductors converters power supplies batteries protection systems and power ics one of the unique features of the power electronics design handbook is the integration of component and system theory with practical applications particularly energy saving low power applications many chapters also include a section that looks forward to future developments in that area references for further information or more in depth technical reading are also included nihal kularatna is a principal research engineer with the arthur c clarke foundation in sri lanka he is also the author of modern electronic test and measuring instruments published by the institute of electrical engineers emphasizes low and medium power components offers a unique mix of theory and practical application provides a useful guide to further reading

since the 1990s the field of sports technology and engineering has expanded beyond an initial focus on sports equipment and materials to include various topics these topics span sustainable equipment design and manufacturing user centred design biomechanics and human equipment interaction field testing sensors and instrumentation of sports equipment and clothing smart textiles artificial intelligence and big data and the development of human body surrogates for testing protective equipment this second edition of routledge handbook of sports technology and engineering pulls together the full depth and breadth of this field explores current issues and controversies and looks to future research directions bringing together many of the world s leading experts and

scientists this book emphasises the current understanding of the underlying mechanics associated with sport and physical activity exercise training and athletic performance in relation to sports equipment clothing and training and officiating technologies in a broad sense this book has five sections sports mechanics sports materials sports equipment design and manufacture sports biomechanics and human equipment interaction field testing sensors and instrumentation written by an international team of leading experts the emphasis throughout this book is on bridging the gap between scientific research and application within sports products and their effect on training and competition this text is important reading for students scholars and others with an interest in engineering related to sport exercise and health in general

a z s for designing superior day care facilities virtually unknown 30 years ago daycare has become a growth industry child care design guide helps architects and designers plan design and renovate functional developmentally rich pleasing centers author anita rui olds brings to this work over 25 years of design experience with children s facilities she gives you step by step explanations of interior and exterior layout and design principles fleshed out in clarifying case studies you learn about licensing and code requirements operational standards and strategies and get helpful checklists charts and graphs for optimum facility design within time space and budgetary constraints this highly visual work features over 300 floor plans for infant and toddler preschool and afterschool spaces plus areas for outdoor play and more

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Introduction

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