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Engineering Your Future: An Australasian Guide, 4th Edition - David Dowling 2020-01-21

Dowling's *Engineering Your Future: An Australasian Guide*, Fourth Edition is used for first year, core subjects across all Engineering disciplines. Building on the previous editions, this text has been updated with new references, while still maintaining a strong and practical emphasis on skills that are essential for problem solving and design. Numerous topical and locally focused examples of projects across engineering disciplines help demonstrate the role and responsibilities of a professional engineer. Themes of sustainability, ethical practice and effective communication are a constant throughout the text. This full-coloured print with interactive e-text resource has a variety of digital media embedded at the point of learning such as videos and knowledge-check questions to engage students and to help consolidate their learning.

Advances in Industrial Automation and Smart Manufacturing - A. Arockiarajan 2020-10-20

This book comprises selected peer-reviewed proceedings of the International Conference on Advances in Industrial Automation and Smart Manufacturing (ICAIASM) 2019. The contents focus on innovative manufacturing processes, standards and technologies used to implement Industry 4.0, and industrial IoT based environment for smart manufacturing. The book particularly emphasizes on emerging industrial concepts like industrial IoT and cyber physical systems, advanced simulation and digital twin, wireless instrumentation, rapid prototyping and tooling, augmented reality, analytics and manufacturing operations management. Given the range of topics covered, this book will be useful for students, researchers as well as industry professionals.

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018) - U. Chandrasekhar 2018-12-14

The book includes the best articles presented by researchers, academicians and industrial experts at the International Conference on "Innovative Design and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018)". The book discusses new concept in designs, and analysis and manufacturing technologies for improved performance through specific and/or multi-functional design aspects to optimise the system size, weight-to-strength ratio, fuel efficiency and operational capability. Other aspects of the conference address the ways and means of numerical analysis, simulation and additive manufacturing to accelerate the product development cycles. Describing innovative methods, the book provides valuable reference material for educational and research organizations, as well as industry, wanting to undertake challenging projects of design engineering and product development.

Communication and Intelligent Systems - Harish Sharma 2021-06-28

This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems (ICCIS 2020), organized jointly by Birla Institute of Applied Sciences, Uttarakhand, and Soft Computing Research Society during 26-27 December 2020. This book presents a collection of state-of-the-art research work involving cutting-edge technologies for communication and intelligent systems. Over the past few years, advances in artificial intelligence and machine learning have sparked new research efforts around the globe, which explore novel ways of developing intelligent systems and smart communication technologies. The book presents single- and multi-disciplinary research on these themes in order to make the

latest results available in a single, readily accessible source. *Automotive Engineering* - Brian Cantor 2008-02-19

The current automotive industry faces numerous challenges, including increased global competition, more stringent environmental and safety requirements, the need for higher performance vehicles, and reducing costs. The materials used in automotive engineering play key roles in overcoming these issues. *Automotive Engineering: Lightweight, Functional, and Novel Materials* focuses on both existing materials and future developments in automotive science and technology. Divided into four sections, the book first describes the development of future vehicles, aluminum alloys for manufacturing lighter body panels, and various polymer composites for stronger module carriers. It then reviews state-of-the-art functional materials and smart technologies and projects in which application areas they will most impact future automotive designs and manufacturing. The next section considers the difficulties that must be overcome for light alloys to displace ferrous-based materials and the increasing competition from lightweight polymeric-based composites. The final section explores newer processing and manufacturing technologies, including welding and joining, titanium alloys, and durable, high-performance composites. With contributions from internationally recognized experts, this volume provides a comprehensive overview of cutting-edge automotive materials and technologies. It will help you understand the key materials and engineering concerns currently confronting this industry.

Advances in Design and Thermal Systems - Lionel Ganippa 2021-04-21

The book presents the select peer-reviewed proceedings of the International Conference on Emerging Trends in Design, Manufacturing, Materials and Thermal Sciences (ETDMMT 2020). The contents focus on latest research in product design, CAD/CAE/CFD, robotic systems, neural networks, thermal systems, alternative fuels, propulsion systems, environmental issues related to combustion, autonomous vehicles and alternative energy applications. In addition, the book also covers recent advances in automotive engineering and aerospace technologies. Given the range of contents covered, this book can be useful for students, researchers as well as practicing engineers.

Nature - Sir Norman Lockyer 1926

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering - Ram P. Bajpai 2014-05-02

The book presents the best articles presented by researchers, academicians and industrial experts in the International Conference on "Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering". The book discusses new concept designs, analysis and manufacturing technologies, where more swing is for improved performance through specific and/or multifunctional linguistic design aspects to downsize the system, improve weight to strength ratio, fuel efficiency, better operational capability at room and elevated temperatures, reduced wear and tear, NVH aspects while balancing the challenges of beyond Euro IV/Barat Stage IV emission norms, Greenhouse effects and recyclable materials. The innovative methods discussed in the book will serve as a reference material for educational and research organizations, as well as industry, to take up challenging projects of mutual interest.

Fluid Mechanics and Fluid Power (Vol. 2) - Suvanjan Bhattacharyya 2023-05-20

This book presents the select proceedings of the 48th National

Conference on Fluid Mechanics and Fluid Power (FMFP 2021) held at BITS Pilani in December 2021. It covers the topics such as fluid mechanics, measurement techniques in fluid flows, computational fluid dynamics, instability, transition and turbulence, fluid-structure interaction, multiphase flows, micro- and nanoscale transport, bio-fluid mechanics, aerodynamics, turbomachinery, propulsion and power. The book will be useful for researchers and professionals interested in the broad field of mechanics.

Scientific American - 1899

Recent Advances in Transportation Systems Engineering and Management - M. V. L. R. Anjaneyulu 2022-11-10

The book presents the select proceedings of the 8th International Conference on Transportation Systems Engineering and Management (CTSEM 2021). The book covers topics pertaining to three broad areas of transportation engineering, namely Transportation Planning, Traffic Engineering and Pavement Technology. The topics covered include transportation and land use, urban and regional transportation planning, travel behavior modeling, travel demand analysis, forecasting and management, transportation and ICT, public transport planning and management, freight transport, traffic flow modeling and management, highway design and maintenance, capacity and level of service, traffic crashes and safety, ITS and applications, non-motorized transportation, transportation economics and policy, road and parking pricing, pedestrian facilities and safety, road asset management, pavement materials and characterization, pavement design and construction, pavement evaluation and management, transportation infrastructure financing, innovative trends in transportation systems, sustainable transportation, smart cities, resilience of transportation systems and environmental and ecological aspects. This book will be useful for the students, researchers and the professionals in the area of civil engineering, especially transportation and traffic engineering.

Electric & Hybrid Vehicles - A.K. Babu

This concise book has been designed for easy reading and to meet the critical skill requirements of students in the branches of Automobile Engineering and Mechanical Engineering and Mechanical Engineering. The contents are presented in 22 lucid chapters. The book deals with the fundamentals, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs). It comprehensively presents vehicle performance, configuration, and control strategy for different electric and hybrid electric vehicles. This course book is intended for use as a Textbook and as a primary Reference book by colleges and technical universities offering core and elective subjects like Electric and Hybrid Vehicles and New Generation Vehicles.

Emerging Trends in Science, Engineering and Technology - S Sathiyamoorthy 2012-12-14

The present book is based on the research papers presented in the International Conference on Emerging Trends in Science, Engineering and Technology 2012, held at Tiruchirapalli, India. The papers presented bridges the gap between science, engineering and technology. This book covers a variety of topics, including mechanical, production, aeronautical, material science, energy, civil and environmental energy, scientific management, etc. The prime objective of the book is to fully integrate the scientific contributions from academicians, industrialists and research scholars.

Electric Mobility in Public Transport—Driving Towards Cleaner Air - Krzysztof Krawiec 2021-04-22

This book addresses various aspects of electric mobility deployment in public transport. These include transport policy-related issues as well as technical, organizational and technical dimensions of the fleet conversion process (from conventional one towards the increased share of electric vehicles in public transport). In the book, one may find, e.g. the determinants for the successful functioning of electrified transport systems (including charging facilities), models and methods for battery electric bus energy consumption, the analysis regarding the charging strategies (including power-grid) as well as electric vehicle battery issues. As the process of fleet conversion is multi-faceted, the book also contains the issues related to cybersecurity in public transport, autonomous vehicles and hyperloop. The book is dedicated to transport professionals, consulting companies and

researchers in the field of electromobility and modern transport systems.

Proceedings of the 13th International Scientific Conference - Eugeniusz Rusiński 2017-03-27

These proceedings of the 13th International Conference on Computer Aided Engineering present selected papers from the event, which was held in Polanica Zdrój, Poland, from June 22 to 25, 2016. The contributions are organized according to thematic sections on the design and manufacture of machines and technical systems; durability prediction; repairs and retrofitting of power equipment; strength and thermodynamic analyses for power equipment; design and calculation of various types of load-carrying structures; numerical methods for dimensioning materials handling; and long-distance transport equipment. The conference and its proceedings offer a major interdisciplinary forum for researchers and engineers to present the most innovative studies and advances in this dynamic field.

Industry Interactive Innovations in Science, Engineering and Technology - Swapan Bhattacharyya 2017-07-20

The book is a collection of peer-reviewed scientific papers submitted by active researchers in the International Conference on Industry Interactive Innovation in Science, Engineering and Technology (I3SET 2016). The conference is a collective initiative of all departments and disciplines of JIS College of Engineering (an autonomous institution), Kalyani, West Bengal, India. The primary objective of the conference is to strengthen interdisciplinary research and encourage innovation in a demand-driven way as desired by the industry for escalating technology for mankind. A galaxy of academicians, professionals, scientists, industry people and researchers from different parts of the country and abroad shared and contributed their knowledge. The major areas of I3SET 2016 include nonconventional energy and advanced power systems; nanotechnology and applications; pattern recognition and machine intelligence; digital signal and image processing; modern instrumentation, control, robotics and automation; civil engineering and structural design; real-time and embedded systems, communication and devices; advanced optimization techniques; biotechnology, biomedical instrumentation and bioinformatics; and outcome based education.

The Alumni Quarterly and Fortnightly Notes - 1917

Advances in Materials and Metallurgy - A. K.

Lakshminarayanan 2018-09-01

This book presents select proceedings of the International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM 2018), and covers topics regarding both the characterization of materials and their applications across engineering domains. It addresses standard materials such as metals, polymers and composites, as well as nano-, bio- and smart materials. In closing, the book explores energy, the environment and green processes as related to materials engineering. Given its content, it will prove valuable to a broad readership of students, researchers, and professionals alike.

Recent Advances in Energy Technologies - N. Lakshmi

Narasimhan 2022-09-29

This book presents the select proceedings of the first International Conference on Energy and Materials Technologies (ICEMT) 2021, organized by the Department of Mechanical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, India. It covers the recent technologies in two broad thematic areas: energy and materials. Various topics covered in this book include hybrid energy, advanced energy systems, energy management, energy policy, geothermal, nuclear energy, bio-energy, waste to energy, power plants, and automotives. The book will be useful for students, researchers, and professionals in the area of mechanical engineering, especially various domains of energy.

Advances in Mechanical Engineering - B. B. Biswal 2020-01-16

This book comprises select proceedings of the International Conference on Recent Innovations and Developments in Mechanical Engineering (IC-RIDME 2018). The book contains peer reviewed articles covering thematic areas such as fluid mechanics, renewable energy, materials and manufacturing, thermal engineering, vibration and acoustics, experimental aerodynamics, turbo machinery, and robotics and mechatronics. Algorithms and

methodologies of real-time problems are described in this book. The contents of this book will be useful for both academics and industry professionals.

A Textbook of Strength of Materials - R. K. Bansal 2010

Recent Advancements in System Modelling Applications - R Malathi 2013-03-12

The book is a collection of peer-reviewed scientific papers submitted by active researchers in the 36th National System Conference (NSC 2012). NSC is an annual event of the Systems Society of India (SSI), primarily oriented to strengthen the systems movement and its applications for the welfare of humanity. A galaxy of academicians, professionals, scientists, statesman and researchers from different parts of the country and abroad are invited to attend the Conference. The book presents various research articles in the area of system modelling in all disciplines of engineering sciences as well as socio-economic systems. The book can be used as a tool for further research.

Proceedings of the Fourth International Conference in Ocean Engineering (ICOE2018) - K. Murali 2019-01-16

This book comprises selected proceedings of the Fourth International Conference in Ocean Engineering (ICOE2018), focusing on emerging opportunities and challenges in the field of ocean engineering and offshore structures. It includes state-of-the-art content from leading international experts, making it a valuable resource for researchers and practicing engineers alike.

International Conference on Artificial Intelligence for Smart Community - Rosdiazli Ibrahim 2022-11-13

This conference proceeding gather a selection of peer-reviewed papers presented at the 1st International Conference on Artificial Intelligence for Smart Community (AISC 2020), held as a virtual conference on 17–18 December 2020, with the theme Re-imagining Artificial Intelligence (AI) for Smart Community to apply computational intelligence for biomedical instruments, automation & control, and smart community to develop suitable solution for various real-world application. The conference virtually brought together researchers, scientists, engineers, industrial professionals, and students presenting important results in the related field of healthcare technology, soft computing technologies, IoT, evolutionary computations, automation and control, smart manufacturing and smart cities. Researchers and scientist working in the allied domain of Artificial Intelligence and others will find the book useful as it will contain some latest computational intelligence methodologies and applications.

Advances in Automotive Technologies - M. Razi Nalim 2020-09-01

This book contains selected papers from the International Conference on Progress in Automotive Technologies (ICPAT) 2019. The contents focus on several aspects of the automobile industry from design to manufacture, and the challenges involved therein. The book covers latest research trends in the automotive domain including topics such as aerodynamic design, vehicle sensors and electronics, engine combustion modeling, noise and vibration in vehicles, electric and hybrid vehicles, automotive tribology, and battery and fuel cell technologies. The book highlights the use of emerging technologies to tackle the growing environmental challenges. This book will be of interest to students, researchers as well as professionals working in automotive engineering and allied fields.

Advances in Electrical and Computer Technologies -

Thangaprakash Sengodan 2020-09-07

The book comprises select proceedings of the first International Conference on Advances in Electrical and Computer Technologies 2019 (ICAECT 2019). The papers presented in this book are peer reviewed and cover wide range of topics in Electrical and Computer Engineering fields. This book contains the papers presenting the latest developments in the areas of Electrical, Electronics, Communication systems and Computer Science such as smart grids, soft computing techniques in power systems, smart energy management systems, power electronics, feedback control systems, biomedical engineering, geo informative systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broad band communication, mobile and optical communication, network security, VLSI,

embedded systems, optical networks and wireless communication. This book will be of great use to the researchers and students in the areas of Electrical and Electronics Engineering, Communication systems and Computer Science.

Recent Advances in Mechanical Engineering - Sasmeeta Tripathy 2023-07-01

This book presents select proceedings of the International Conference on Recent Advances in Mechanical Engineering Research and Development (ICRAMERD 2022) focusing on the recent advances and best practices of mechanical engineering, related technologies and sciences to meet the challenges in mechanical engineering, digital technology and smart manufacturing. The contents focus on design engineering, advanced materials, automation in engineering, industrial and systems engineering, energy and others. Some of the topics discussed here include fracture and failure analysis, fuels and alternative fuels, non-conventional machining, combustion and IC engines, advanced manufacturing technologies, powder metallurgy and rapid prototyping, industrial engineering and automation, supply chain management, design of mechanical systems, vibrations and control engineering, automobile engineering, performance analysis of biomass energy systems, heat transfer, composite materials, thermal modelling and simulations of different systems, analysis of slurry pipeline systems, waste management, optimization and robotics. The wide range of topics presented in this book will be useful for beginners, researchers as well as professionals in mechanical engineering.

Advances in Material Sciences and Engineering - Mokhtar Awang 2019-09-19

This book presents selected papers from the 4th International Conference on Mechanical, Manufacturing and Plant Engineering (ICMMPPE 2018), which was held in Melaka, Malaysia from the 14th to the 15th of November 2018. The proceedings discuss genuine problems concerning joining technologies that are at the heart of various manufacturing sectors. In addition, they present the outcomes of experimental and numerical works addressing current problems in soldering, arc welding and solid-state joining technologies.

The Alumni Quarterly and Fortnightly Notes of the University of Illinois - 1918

Materials, Design, and Manufacturing for Sustainable Environment - Santhakumar Mohan 2021-02-06

This book comprises the select proceedings of the International Conference on Materials, Design and Manufacturing for Sustainable Environment (ICMDMSE 2020). The primary focus is on emerging materials and cutting-edge manufacturing technologies for sustainable environment. The book covers a wide range of topics such as advanced materials, vibration, tribology, finite element method (FEM), heat transfer, fluid mechanics, energy engineering, additive manufacturing, robotics and automation, automobile engineering, industry 4.0, MEMS and nanotechnology, optimization techniques, condition monitoring, and new paradigms in technology management. Contents of this book will be useful to students, researchers, and practitioners alike.

Intelligent Communication Technologies and Virtual Mobile Networks - G. Rajakumar 2022-07-19

The book is a collection of high-quality research papers presented at Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), held at Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, during February 10–11, 2022. The book shares knowledge and results in theory, methodology and applications of communication technology and mobile networks. The book covers innovative and cutting-edge work of researchers, developers and practitioners from academia and industry working in the area of computer networks, network protocols and wireless networks, data communication technologies and network security.

Advances in Dynamics of Vehicles on Roads and Tracks II - Anna Orlova 2022-08-08

This book offers a snapshot of the latest research and developments in road and railway vehicle dynamics. Gathering peer-reviewed contributions to the 27th Symposium of the International Association of Vehicle System Dynamics (IAVSD), held online on August 17–19, 2021, from Saint Petersburg, Russia, it offers extensive information for both researchers and

professionals in the field of ground vehicle dynamics, control and design. It covers cutting-edge methods and solutions for solving ground vehicle system dynamics-related problems, concerning control and monitoring, performance, safety and braking of road and rail vehicles, including electric and autonomous ones. Further, it reports on significant advances in vehicle design, and important applications to improve ride comfort. Overall, the book provides academics and professional with a timely reference guide on theories and methods to understand, analyze and improve vehicle stability and dynamics in a broad range of different operating conditions. Chapter "Experimental Validation of a Semi-physical Modelling Approach of the Influence of Tyre Rotation on the Vertical Tyre Force Transmission and Tyre Kinematics" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Advanced Solutions and Practical Applications in Road Traffic Engineering - Elżbieta Macioszek 2023-01-01

This book presents many valuable tips for making decisions related to traffic flow in transport networks. The knowledge base in practical examples, as well as the decision support systems described in this book, finds interest among people who face the daily challenge of searching for advanced solutions and practical applications in road traffic engineering. The publication is therefore addressed to local authorities related to the planning and development of development strategies for selected areas with regard to transport (both in the urban and regional dimension) and to representatives of business and industry, as people directly involved in the implementation of traffic engineering solutions. The publication contains selected papers submitted to and presented at the 18th "Transport Systems. Theory and Practice" Scientific and Technical Conference organized by the Department of Transport Systems, Traffic Engineering and Logistics at the Faculty of Transport and Aviation Engineering at the Silesian University of Technology. The conference took place on September 19-20, 2022, in Katowice (Poland).

Reliability and Risk Assessment in Engineering - Vijay Kumar Gupta 2020-05-08

This volume is a collection of articles on reliability and safety engineering presented during INCRS 2018. The articles cover a variety of topics such as big data analytics and their applications in reliability assessment and condition monitoring, health monitoring, management, diagnostics and prognostics of mechanical systems, design for reliability and optimization, and machine learning for industrial applications. A special aspect of this volume is the coverage of performance, failure and reliability issues in electrical distribution systems. This book will be a useful reference for graduate students, researchers and professionals working in the area of reliability assessment, condition monitoring and predictive maintenance.

The Automotive Chassis - Giancarlo Genta 2019-12-24

This textbook draws on the authors' experience gained by teaching courses for engineering students on e.g. vehicle mechanics, vehicle system design, and chassis design; and on their practical experience as engineering designers for vehicle and chassis components at a major automotive company. The book is primarily intended for students of automotive engineering, but also for all technicians and designers working in this field. Other enthusiastic engineers will also find it to be a useful technical guide. The present volume (*The Automotive Chassis - Volume 1: Component Design*) focuses on automotive chassis components, such as:• the structure, which is usually a ladder framework and supports all the remaining components of the vehicle;• the suspension for the mechanical linkage of the wheels;• the wheels and tires;• the steering system;• the brake system; and• the transmission system, used to apply engine torque to the driving wheels. This thoroughly revised and updated second edition presents recent developments, particularly in brake, steering, suspension and transmission subsystems. Special emphasis is given to modern control systems and control strategies.

Recent Advances in Structural Engineering and Construction Management - Kong Kian Hau 2022-09-27

This book presents the select proceedings of the International Conference on Structures, Materials and Construction (ICSMC 2021). It covers the recent developments and futuristic trends in

the field of structural engineering and construction management, including new building materials and understanding their behavior. The topic covered also assess the current progress and state-of-the-art techniques in structural experimentation, smart materials, structures technology, principles of construction management, materials properties and characterization. The collection of papers included in this proceeding will contribute to scientific developments in the field of structural engineering and construction and will be a useful as reference material for the academicians, researchers and most importantly the student community pursuing research in the fields of structural engineering and construction technology.

Advances in Manufacturing Technology - Somashekhar S. Hiremath 2019-04-17

This volume comprises select papers presented at the International Conference on Advances in Manufacturing Technology (ICAMT 2018). It includes contributions from different researchers and practitioners working in the field of advanced manufacturing technology. This book covers diverse topics of contemporary manufacturing technology including material processes, machine tools, cutting tools, robotics and automation, manufacturing systems, optimization technologies, 3D scanning and re-engineering, and 3D printing. Computer applications in design, analysis, and simulation tools for solving manufacturing problems at various levels starting from material designs to complex manufacturing systems are also discussed. This book will be useful for students, researchers, and practitioners working in the field of manufacturing technology.

Advances in Manufacturing Processes - K. S. Vijay Sekar 2018-09-10

This book comprises selected proceedings of the International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM 2018). It discusses innovative manufacturing processes, such as rapid prototyping, nontraditional machining, advanced computer numerical control (CNC) machining, and advanced metal forming. The book particularly focuses on finite element simulation and optimization, which aid in reducing experimental costs and time. This book is a valuable resource for students, researchers, and professionals alike.

Networked Control Systems for Connected and Automated Vehicles - Alexander Guda 2022-11-15

This book is a collection of the latest research findings in such areas as networked multi-agent systems, co-design of communication and control, distributed control strategies that can cope with asynchrony between local loops, event-triggered control, modelling of network infrastructure, novel concepts of distributed control for networked and cyber-physical systems. The book contains the result of the latest research in the field of communication and control system design to support networked control systems with stringent real-time requirements. It introduces readers to research in the field of joint design of the control and communication protocol and presents the latest developments in the area of novel optimal control and scheduling designs under resource constraints. The book also covers the issues of creating emerging information and communication technologies for traffic estimation and control, connected and autonomous technology applications and modelling for commercial and shared vehicle operations. The reader will find information on emerging cyber-physical systems, networked multi-agent systems, large-scale distributed energy systems, as well as on real-time systems, safety and security systems. A significant block of studies is devoted to the topic of transitions towards electrification and automation of vehicles. Modern concepts of road infrastructure construction are described in detail in the presented research papers. Automotive industry professionals will be particularly interested in the sections on the novel mechanisms for medium access in multi-hop wireless networks with real-time requirements, optimal layering architecture and co-design for wireless communication. The book will be incredibly interesting for researchers interested in human-digital interfaces, industrial Internet of Things, artificial intelligence and machine learning.

Advances in Additive Manufacturing and Joining - M. S. Shunmugam 2019-10-16

This volume presents research papers on additive manufacturing

(popularly known as 3D printing) and joining which were presented during the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The contents of this volume present the latest technological advancements for improving the efficiency, accuracy and speed of the additive manufacturing process and in fusion and

solid-state welding technologies, with a variety of technologies, including fused deposition modelling, poly jet 3D printing, weld deposition based technology, selective laser melting and important welding technologies being covered. This volume will be of interest to academicians, researchers, and practicing engineers alike.