

14. (a) A body A is projected vertically upwards from the top of a tower with a velocity of 40 m/s, the tower being 180 m high. After t sec, another body B is allowed to fall from the same point. Both the bodies reach the ground simultaneously. Calculate t and the velocities of A and B on reaching the ground.

Or

- (b) Two smooth spheres 1 and 2 having a mass of 2 kg and 4 kg respectively collide with initial velocities as shown in Fig. 9. If the coefficient of restitution for the spheres is $e = 0.8$, determine the velocities of each sphere after collision.

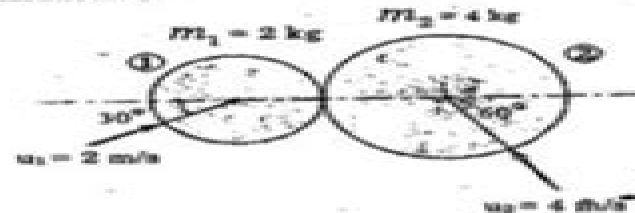


Fig. 9

15. (a) Two blocks A and B are placed on inclined planes as shown in Fig. 10. The block A weighs 1000 N. Determine minimum weight of the block B for maintaining the equilibrium of the system. Assume that the blocks are connected by an inextensible string passing over a frictionless pulley. Coefficient of friction μ_A between the block A and the plane is 0.25. Assume the same value for μ_B .



Fig. 10

Or

- (b) Two bodies of 9 kg and 13.5 kg are suspended on two ends of a string passing over a pulley of radius 275 mm and moment of inertia = 16.5 kgm^2 as shown in Fig. 11. Determine the tensions in the strings and the angular acceleration of the pulley.

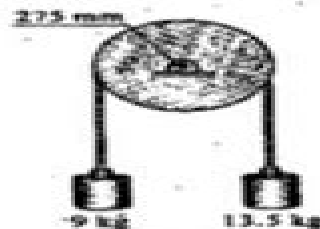


Fig. 11

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**Peng Cheng Wang,Xiang Dong
Liu,Yong Quan Han**



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Computer Integrated Manufacturing - Proceedings Of The 3rd International Conference (In 2 Volumes) Robert Gay, Appa Iyer Sivakumar, J Winsor, 1995-07-10 Current Perspectives and New Directions in Mechanics, Modelling and Design of Structural Systems Alphose Zingoni, 2022-09-02 Current Perspectives and New Directions in Mechanics Modelling and Design of Structural Systems comprises 330 papers that were presented at the Eighth International Conference on Structural Engineering Mechanics and Computation SEMC 2022 Cape Town South Africa 5 7 September 2022 The topics featured may be clustered into six broad categories that span the themes of mechanics modelling and engineering design i mechanics of materials elasticity plasticity porous media fracture fatigue damage delamination viscosity creep shrinkage etc ii mechanics of structures dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii numerical modelling and experimental testing numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber v innovative concepts sustainable engineering and special structures nanostructures adaptive structures smart structures composite structures glass structures bio inspired structures shells membranes space structures lightweight structures etc vi the engineering process and life cycle considerations conceptualisation planning analysis design optimization construction assembly manufacture maintenance monitoring assessment repair strengthening retrofitting decommissioning Two versions of the papers are available full papers of length 6 pages are included in the e book while short papers of length 2 pages intended to be concise but self contained summaries of the full papers are in the printed book This work will be of interest to civil structural mechanical marine and aerospace engineers as well as planners and architects Proceedings of Crack Paths (CP 2006), Parma Italy 2006 , The South African Mechanical Engineer , 1989 *Material Forming* Lukasz Madej, Mateusz Sitko, Konrad

Perzynski,2023-04-25 These proceedings present papers on Additive Manufacturing Composites Forming Processes Extrusion and Drawing Forging and Rolling Formability of Metallic Materials Friction and Wear in Metal Forming Incremental and Sheet Metal Forming Innovative Joining by Forming Technologies Lionel Fourment MS on Optimization and Inverse Analysis in Forming Machining and Cutting Material Behavior Modelling New and Advanced Numerical Strategies for Material Forming Non Conventional Processes Polymer Processing and Thermomechanical Properties Sustainability on Material Forming and Property Controlled Forming *Advanced Engineering Materials III* Jing Long Bu,Yun Hae Kim,2013-08-30 Selected peer reviewed papers from the 3rd International Conference on Advanced Engineering Materials and Technology AEMT 2013 May 11 12 2013 Zhangjiajie China **Advances in Manufacturing Engineering and Materials** Sergej Hloch,Dagmar Klichová,Grzegorz M. Krolczyk,Somnath Chattopadhyaya,Lucie Ruppenthalová,2018-09-14 This book reports on cutting edge research and technologies in the field of advanced manufacturing and materials with a special emphasis on unconventional machining process rapid prototyping and biomaterials Based on the International Conference on Manufacturing Engineering and Materials ICMEM 2018 held in Nov Smokovec Slovakia on 18 22 June 2018 it covers advances in various disciplines which are expected to increase the industry s competitiveness with regard to sustainable development and preservation of the environment and natural resources Condition monitoring industrial automation and diverse fabrication processes such as welding casting and molding as well as tribology and bioengineering are just a few of the topics discussed in the book s wealth of authoritative contributions **Advances in Cement and Concrete** Akeem Ayinde Raheem,2025-04-25 The book reports recent research in the production processing analysis and testing of cement and concrete materials Topics include the development of green building materials synthesis and applications of nanoparticles self healing and self sensing cement composites and High Performance Concrete HPC Keywords Wood Ash Nanosilica Rice Husk Ash Bio Fibrous Concrete Hollow Sandcrete Blocks Metakaolin Blended Cement Mortar Pozzolanic Materials Waste Paper Sludge Ash Crushed Glass Waste Self Compacting Concrete Reinforced Concrete Buildings Bamboo Leaves Ash Laterized Concrete Blast Furnace Slag *Advanced Computer and Communication Engineering Technology* Hamzah Asyrani Sulaiman,Mohd Azlishah Othman,Mohd Fairuz Iskandar Othman,Yahaya Abd Rahim,Naim Che Pee,2015-12-28 This book covers diverse aspects of advanced computer and communication engineering focusing specifically on industrial and manufacturing theory and applications of electronics communications computing and information technology Experts in research industry and academia present the latest developments in technology describe applications involving cutting edge communication and computer systems and explore likely future trends In addition a wealth of new algorithms that assist in solving computer and communication engineering problems are presented The book is based on presentations given at ICOCOE 2015 the 2nd International Conference on Communication and Computer Engineering It will appeal to a wide range of professionals in the field including telecommunication engineers computer engineers and scientists

researchers academics and students **Advances in Production Management Systems: New Challenges, New Approaches** Bruno Vallespir,Thècle Alix,2010-10-15 The present economic and social environment has given rise to new situations within which companies must operate As a first example the globalization of the economy and the need for performance has led companies to outsource and then to operate inside networks of enterprises such as supply chains or virtual enterprises A second instance is related to environmental issues The statement about the impact of industrial activities on the environment has led companies to revise processes to save energy to optimize transportation A last example relates to knowledge Knowledge is considered today to be one of the main assets of a company How to capitalize to manage to reuse it for the benefit of the company is an important current issue The three examples above have no direct links However each of them constitutes a challenge that companies have to face today This book brings together the opinions of several leading researchers from all around the world Together they try to develop new approaches and find answers to those challenges Through the individual chapters of this book the authors present their understanding of the different challenges the concepts on which they are working the approaches they are developing and the tools they propose The book is composed of six parts each one focuses on a specific theme and is subdivided into subtopics Industrial and Engineering Applications of Artificial Intelligence and Expert Systems Takushi Tanaka, Setsuo Ohsuga, Ali Moonis, 2022-04-19 This volume includes the proceedings from Proceedings of the Ninth International Conference Fukuoka Japan June 4-7 1996 This work represents a broad spectrum of new ideas in the field of applied artificial intelligence and expert systems and serves to disseminate information regarding intelligent methodologies and their implementation in solving various problems in industry and engineering **Advanced Designs and Researches for Manufacturing** Peng Cheng Wang, Xiang Dong Liu, Yong Quan Han, 2012-12-13 Selected papers from the 2nd International Conference on Materials and Products Manufacturing Technology ICMPMT 2012 September 22-23 2012 Guangzhou China **Asset Intelligence through Integration and Interoperability and Contemporary Vibration Engineering Technologies** Joseph Mathew, C.W. Lim, Lin Ma, Don Sands, Michael E. Cholette, Pietro Borghesani, 2018-11-11 These proceedings include a collection of papers on a range of topics presented at the 12th World Congress on Engineering Asset Management WCEAM in Brisbane 2-4 August 2017 Effective strategies are required for managing complex engineering assets such as built environments infrastructure plants equipment hardware systems and components Following the release of the ISO 5500x set of standards in 2014 the 12th WCEAM addressed important issues covering all aspects of engineering asset management across various sectors including health The topics discussed by the congress delegates are grouped into a number of tracks including strategies for investment and divestment of assets operations and maintenance of assets assessment of assets health conditions risk and vulnerability technologies and systems for management of assets standards education training and certification

Proceedings of Crack Paths (CP 2009), Vicenza, Italy 2009 , **New Technologies, Development and Application**

VII Isak Karabegovic,Ahmed Kovačević,Sadko Mandzuka,2024-07-27 This book features papers focusing on the implementation of new and future technologies which were presented at the International Conference on New Technologies Development and Application Advanced Production Processes and Intelligent Systems held at the Academy of Science and Arts of Bosnia and Herzegovina in Sarajevo on 20-22 June 2024. It covers a wide range of future technologies and technical disciplines including complex systems such as Industry 4.0, robotics, mechatronics, systems automation, manufacturing, cyber physical and autonomous systems, sensors, networks, control, energy, renewable energy sources, automotive and biological systems, vehicular networking and connected vehicles and intelligent transport, effectiveness and logistics systems, smart grids, nonlinear systems, power, social and economic systems, education and IoT. The book 'New Technologies Development and Application VII' is oriented toward Fourth Industrial Revolution Industry 4.0, which implementation will improve many aspects of human life in all segments and lead to changes in business paradigms and production models. Further, new business methods are emerging, transforming production systems, transport, delivery and consumption, which need to be monitored and implemented by every company involved in the global market.

Neural Nets Bruno Apolloni,Maria Marinaro,Giuseppe Nicosia,Roberto Tagliaferri,2006-03-11 This book constitutes the thoroughly refereed postproceedings of the 16th Italian Workshop on Neural Nets WIRN 2005 as well as the satellite International Workshop on Natural and Artificial Immune Systems NAIS 2005 held in Vietri sul Mare, Italy, in June 2005. The 41 revised papers presented together with a lecture by the winner of the Premio Caianiello award were carefully reviewed and improved during two rounds of selection and refereeing.

Materials with Complex Behaviour Lucas F. M. da Silva,Holm Altenbach,2010-08-17 Common engineering materials reach in many demanding applications such as automotive or aerospace. Their limits and new developments are required to fulfill increasing demands on performance and characteristics. The properties of materials can be increased, for example, by combining different materials to achieve better properties than a single constituent or by shaping the material or constituents in a specific structure. Many of these new materials reveal a much more complex behavior than traditional engineering materials due to their advanced structure or composition. Furthermore, the classical applications of many engineering materials are extended to new ranges of applications and to more demanding environmental conditions such as elevated temperatures. All these tendencies require, in addition to the synthesis of new materials, proper methods for their manufacturing and extensive programs for their characterization. In many fields of application, the development of new methods and processes must be accomplished by accurate and reliable modeling and simulation techniques. Only the interaction between these new developments with regards to manufacturing, modeling, characterization, further processing and monitoring of materials will allow to meet all demands and to introduce these developments in safety-relevant applications. The 3rd International Conference on Advanced Computational Engineering and Experimenting ACE X 2009 was held in Rome, Italy, from 22 to 23 June 2009 with a strong focus on the above-mentioned developments.

Proceedings of the ASME Advanced Energy

Systems Division American Society of Mechanical Engineers. Advanced Energy Systems Division, 2004
ECEG2007-Proceedings of the 7th European Conference on e-Government Dan Remenyi,

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