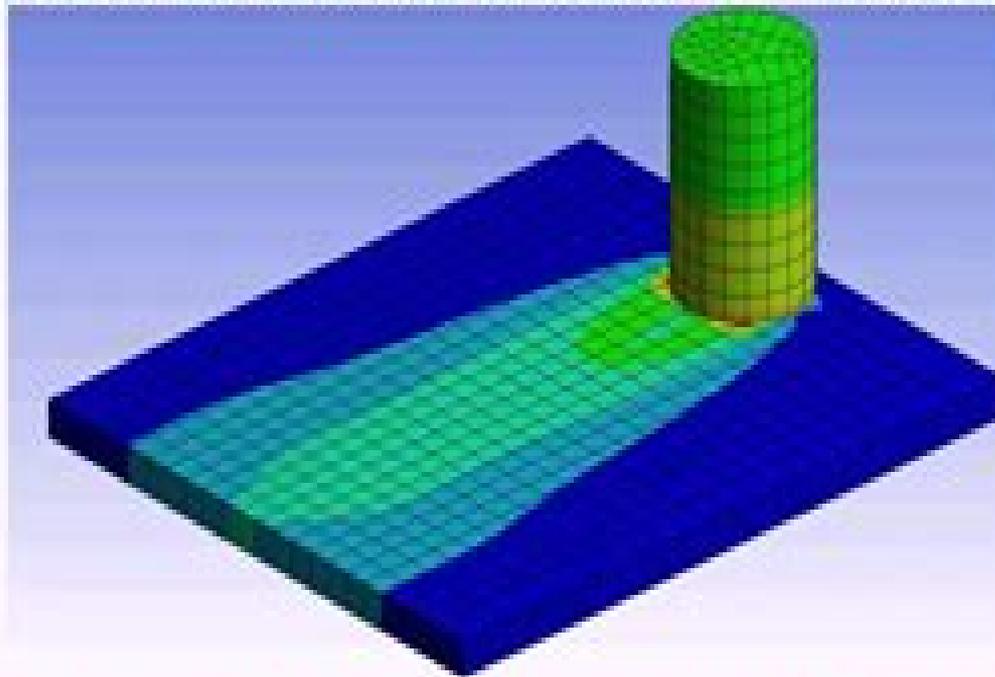


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papers originally presented at the 19th Australasian Conference on the Mechanics of Structures and Materials by academics researchers and practitioners largely from Australasia and the Asia Pacific region The topics under discussion include composite structures and materials computational mechanics dynamic analysis of structures earthquake engineering fire engineering geomechanics and foundation engineering mechanics of materials reinforced and prestressed concrete structures shock and impact loading steel structures structural health monitoring and damage identification structural mechanics and timber engineering It is a valuable reference for academics researchers and civil and mechanical engineers working in structural and material engineering and mechanics

**International Journal of Engineering Research in Africa Vol. 29** Akii Okonigbon Akaehomen Ibadode,2017-03-10 The 29th volume of the International Journal of Engineering Research in Africa presents the articles which describe the results of engineering research and solutions in the fields of structural materials building materials and construction technologies applied dynamics of fluid and flow chemical engineering and engineering management of modern production The articles will be useful for professionals concerned with mechanical engineering materials science chemical engineering engineering management and for students and academic teachers of the related specialties

**Prediction of the Ejection Force in Injection Molding of Thermoplastics Using Numerical Simulation** Omar M. Bataineh,2004

**Powders and Grains 2005, Two Volume Set** R. Garcia-Rojo,H.J. Herrmann,Sean McNamara,2005-07-01 This volume contains the proceedings of the Fifth International Conference on the Micromechanics of Granular Media Powders and Grains 2005 Powders and Grains is an international scientific conference held every 4 years that brings together engineers and physicists interested in the micromechanics of granular media The book is a guide to the hotte

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site evaluation is required in the analysis and design of new structures construction monitoring and forensic studies that require remediation Many of the contributions relate to case studies of projects that involve shallow foundations drilled shafts pilings slope stability excavations earth dams tunnels and mining Several papers discuss a combined approach using multiple methods and or complementary set of geotechnical geophysical tests to ascertain the characteristics of the ground back cover

Optical Coherence Tomography in Cardiovascular Research Evelyn Regar,A.M.G.J. van Leeuwen,Patrick W. Serruys,2007-03-06 Given that for centuries the standard tool to understand diseases in tissues was the microscope and that its major limitation was that only excised tissue could be used recent technology now permits the examination of diseased tissue in vivo Optical coherence tomography OCT has promising potential when applied to coronary artery disease OCT has the capability to identify coronary plaque and to distinguish between plaques that are stable and unstable If the plaques are stable then OCT can direct percutaneous intervention angioplasty or stenting Optical coherence tomography is a light based imaging technology that allows for very high resolution imaging in biological tissues It has been first applied in ophthalmology where it soon became the golden standard for the assessment of epi retinal processes The unique imaging capabilities have raised the interest of researchers and clinicians in the field of cardiovascular disease since OCT offers unique possibilities to study atherosclerosis pathophysiology in vivo With over 1 1M Americans having a heart attack this year because of unstable plaque rupture OCT may have an increasingly important role in the early diagnosis of coronary artery disease This unique publication offers the reader the basic background to OCT and its role in the diagnosis and management of coronary artery disease The Handbook of Optical Coherence Tomography in Cardiovascular Research introduces the cardiovascular application of this technology Clinicians biologists engineers and physicist are discussing different aspects of cardiovascular OCT application in a multidisciplinary approach The handbook offers the readership a concise overview on the current state of the art of vascular OCT imaging and sheds light on a variety of exciting new developments The physics technical principles of OCT and its application in a broad spectrum of cardiovascular research areas are summarized by highly recognized specialists The potential of OCT in peripheral and coronary arteries and in developmental cardiology are described Each research area is introduced by a clinical expert in the field followed by discussion of different aspects from an engineering biomedical and clinical perspective Specifically the current capabilities for plaque characterization detection of vulnerable plaque guidance of interventional procedures Doppler assessment and molecular contrast imaging are being described The Handbook of Optical Coherence Tomography in Cardiovascular Research targets researchers and clinicians involved in the field of atherosclerosis The summary of basic physics engineering solutions pre clinical and clinical application covers all relevant aspects and will be a valuable reference source

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Azrina Wan Muhammad, Shahrudin Mahzan, Maizlinda Izwana Idris, Nur Azam Badarulzaman, Ibrahim Siti Aida, Zawati Harun, 2015-02-10 Selected peer reviewed papers from the International Conference on X Rays Related Techniques in Research Industry 2014 ICXRI 2014 August 11 13 2014 Johor Bahru Malaysia *Advances and applications of artificial intelligence and numerical simulation in risk emergency management and treatment* Yunhui Zhang, Chengyi Pu, Zou Quanle, Yihuai Zhang, Lei-Lei Liu, 2023-07-24 **Advanced Engineering Forum Vol. 21** Ionu Ovidiu Toma, Vasilica Ciocan, Andrei Boboc, Marian Pruteanu, Vlad Munteanu, Ciprian Ilie Cozmanciuc, Marius Costel Balan, Ana Maria Toma, 2017-03-01 Modern Trends in Civil Engineering EBUILT 2016 Selected peer reviewed papers from the International Conference Towards a Sustainable Urban Environment EBUILT 2016 November 16 19 2016 Iasi Romania *Mechatronics, Robotics and Automation* Yun Hae Kim, 2013-08-30 Selected peer reviewed papers from the 2013 International Conference on Mechatronics Robotics and Automation ICMRA 2013 June 13 14 2013 Guangzhou China *Advances in Civil Engineering, ICCET 2011* Xue Jun Zhou, 2011-09-08 Selected peer reviewed papers from the 2011 International Conference on Civil Engineering and Transportation ICCET 2011 14 16 October 2011 Jinan China *Sustainable Energy in the Built Environment - Steps Towards nZEB* Ion Visa, 2014-09-17 This book addresses the main challenges faced today in implementing the Nearly Zero Energy Buildings nZEB concept The book starts with a chapter that addresses problems related to the energy demand and renewable energy sources available in the built environment along with the restrictions and opportunities in developing sustainable efficient and affordable solutions also gaining aesthetic and architectural acceptance Advanced solutions to cover the energy needs by using various renewable based energy mixes are presented in two chapters These two chapters discuss the problem of conversion efficiency at the level of components and systems aiming at giving value to the variable renewable energy sources in producing thermal and electric energy The concept is discussed further in a chapter on advanced solutions for water re use and recycling wastes as second raw materials The need for new strategies and implementation tools for education and training is addressed in the final chapter as part of the nZEB concept towards sustainable communities The sub chapters of the book were openly presented during the 4th Edition of the Conference for Sustainable Energy held 6 8 November 2014 and organized by the R D Centre Renewable Energy Systems and Recycling at the Transilvania University of Brasov Romania This event was developed under the patronage of the International Federation for the Promotion of Mechanism and Machine Science IFToMM through the Technical Committee Sustainable Energy Systems *Traffic Control Design for Portable Concrete Barriers*, 2006 **Advanced Materials and Engineering Materials X** Peng Sheng Wei, Yan Zhang Xi, 2021-11-22 Selected peer reviewed full text papers from the 10th ICAMEM and 7th ICMSSM **Winter Annual Meeting** American Society of Mechanical Engineers, *Journal of Tribology*, 2007 **PRICM 6** Young Won Chang, Nack-Joon Kim, Chong Soo Lee, 2007 **ASME Technical Papers**, 2000

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