Record Nr. UNINA9910791909903321 Computational mechanics materials and engineering applications: **Titolo** selected, peer reviewed papers from the 2011 International workshop on Computational Mechanics, Materials and Engineering Applications (CMMEA 2011), July 23-24, 2011, Kunming, China / / edited by Jianrong Yang and Min Yu Pubbl/distr/stampa Zurich, Switzerland: ,: Trans Tech Publications, , 2012 ©2012 **ISBN** 3-03813-727-8 Descrizione fisica 1 online resource (331 p.) Applied Mechanics and Materials, , 1662-7490; ; Volume 147 Collana Altri autori (Persone) YangJianrong YuMin Disciplina 620.10285 Soggetti Mechanics, Applied - Data processing Mechanics, Applied - Technological innovations Engineering - Data processing Materials science - Technological innovations Materials science - Data processing Materials - Technological innovations Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters and indexes. Nota di contenuto Computational Mechanics, Materials and Engineering Applications; Preface, Sponsors and Organizers; Table of Contents; Chapter 1: Building Materials: Using of Furfural to Modify the Ordinary Portland Cement; The Use of Stress Reduces in suddenly Changed Section of Rounded Shafts; Influence of Compressive Strength of Self-Compacting Concrete on Shear Behavior of Prestressed RC Beams: Strengthening of Concrete Beams Having Shear Zone Openings Using Orthotropic CFRP Modeling; Secondary Reinforcement in Concrete Corbel Strength Properties of Recycled Aggregate Concrete Mixed with Polypropylene FiberStudy on the Behaviors of CFRP Confining Concrete Specimens Exposed to Fire, Acid and Alkaline Environments; Mechanical

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## Sommario/riassunto

Following the great progress made in Computational Mechanics and Materials, the 2011 International Workshop on Computational Mechanics, Materials and Engineering Applications (CMMEA 2011) aimed at providing a forum for the presentation and discussion of state-of-the-art developments in Computational Mechanics and Engineering Applications, Building Materials, Geotechnical & Soil Engineering and Materials Science and Engineering Applications. The emphasis was placed on basic methodologies, scientific developments and engineering applications. Review from Book News Inc.: This publication consists