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Nota di contenuto

Numerical simulation of cds-free cigs solar cells -- Treatment of hassi r'mel oil discharge by an agro-food-waste -- Cattle manure characterization for the optimization of biogas production and its energetic valorization in an agricultural exploitation -- Influence of treatment of date palm fibers on the mechanical properties of fiber concrete -- Analyses of the micromechanics of stress transfer in single fiber pull-out tests -- Effect of reinforcement shear and buckles defects on the low velocity impact behavior of a composite -- Biosurfactants production from newly isolated aspergillus sp. Fs11 using agro-industrial wastes -- Sustainable management of renewable energy potential in the naã,ma region -- Physical and mechanical properties of concrete containing pvc waste as aggregate -- Impact of the nature of fibers on the physico-mechanical behavior and durability of cement matrices -- Statistical analysis of the tensile properties of fiber strand and vascular bundle extracted from date palm rachis. Modeling and simulation of conductanceâ€“voltage characteristics of a nitride gaas schottky diode Compliance with rpa of an old building -- Elimination of malachite green on granular activated carbon prepared from olive stones in discontinuous and continuous modes -- Influences de la propagation d'une fissure sur les fré©quences modales des aubes de la turbine -- Behavior of concrete using coal waste (heap) in hot weather -- Cosotia project: decision support for the choice of concentrated solar technologies for electricity generation -- Study of physico-mechanical characteristics of concrete made with recycled gravel and prepared sand -- Effect of initial suction on the hydraulic conductivity of an algerian waste landfill lining -- Influence of thermally dilated graphite on the differential calorimetric of the fluoroplastique -- Study of the mechanical properties of a reactive powder concrete containing fibers -- Use of the stochastic finite element method for linear elasticity problems -- Statistical analysis of the tensile properties of fiber strand and vascular bundle extracted from date palm rachis -- Study of the mechanical strength of a composite carbon/perlon/epoxy used in the manufacture of orthopedic prosthesis -- Effect of different anodizing bath on improving the corrosion resistance of a 2024 aluminum alloy -- Influence of leachate pollution on hydromechanical properties of sandy soils-bentonite mixture -- A review of phase change materials used to improve thermal comfort in buildings -- Effect of water and temperature on the rheological behavior of crude oil Metal-organic frameworks (mofs): advanced technology of architectural instability against moisture -- Physicochemical and foaming properties of crude acid whey treated by ultrafiltration -- The mechanical proprieties study of ti-n on machines steel substrates -- Maintenance of 3d printer for material optimization.

Sommario/riassunto

This book presents the proceedings of the 4th International Symposium on Materials and Sustainable Development ISMSD2019 (CIMDD2019), will include a 3-day Conference (12 - 14 November). Organized by the Research Unit: Materials, Processes and Environment and M'hamed Bougara University of Boumerdes (Algeria) in partnership with University of Reims - Champagne-Ardenne (France), this symposium follows the success of CIMDD 2013-2015-2017 and continues the traditions of the highly successful series of International Conferences on the materials, processes and Environment. The Symposium will provide a unique topical forum to share the latest results of the materials and sustainable development research in Algeria and worldwide.

