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Chemical Engineering Final Year Project

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Eco-Efficient Concrete Fernando Pacheco-Torgal, S Jalali, Joao Labrincha, V M John, 2013-02-04 Eco efficient concrete is a comprehensive guide to the characteristics and environmental performance of key concrete types Part one discusses the eco efficiency and life cycle assessment of Portland cement concrete before part two goes on to consider concrete with supplementary cementitious materials SCMs Concrete with non reactive wastes is the focus of part three including municipal solid waste incinerator MSWI concrete and concrete with polymeric construction and demolition wastes CDW An eco efficient approach to concrete carbonation is also reviewed followed by an investigation in part four of future alternative binders and the use of nano and biotech in concrete production With its distinguished editors and international team of expert contributors Eco efficient concrete is a technical guide for all professionals researchers and academics currently or potentially involved in the design manufacture and use of eco efficient concrete The first part of the book examines the eco efficiency and life cycle assessment of Portland cement concrete Chapters in the second part of the book consider concrete with supplementary cementitious materials including properties and performance Reviews the eco efficient approach to concrete carbonation

New Media Communication Skills for Engineers and IT Professionals: Trans-National and Trans-Cultural Demands Patil, Arun, Eijkman, Henk, Bhattacharyya, Ena, 2012-03-31 The communication demands expected of today's engineers and information technology professionals immersed in multicultural global enterprises are unsurpassed New Media Communication Skills for Engineers and IT Professionals Trans National and Trans Cultural Demands provides new and experienced practitioners academics employers researchers and students with international examples of best practices in new as well as traditional communication skills in increasingly trans cultural digitalized hypertext environments This book will be a valuable addition to the existing literature and resources in communication skills in both organizational and higher educational settings giving readers comprehensive insights into the proficient use of a broad range of communication critical for effective professional participation in the globalized and digitized communication environments that characterize current engineering and IT workplaces *Energy Research Abstracts*, 1985

Fault Detection, Supervision and Safety for Technical Processes 1991 B. Freyermuth, R. Isermann, 2014-05-23 These Proceedings provide a general overview as well as detailed information on the developing field of reliability and safety of technical processes in automatically controlled processes The plenary papers present the state of the art and an overview in the areas of aircraft and nuclear power stations because these safety critical system domains possess the most highly developed fault management and supervision schemes Additional plenary papers covered the recent developments in analytical redundancy In total there are 95 papers presented in these Proceedings

The Water-Food-Energy Nexus I. M. Mujtaba, R. Srinivasan, N. O. Elbashir, 2017-09-11 Exponential growth of the worldwide population requires increasing amounts of water food and energy However as the quantity of available fresh water and energy sources directly affecting cost of food

production and transportation diminishes technological solutions are necessary to secure sustainable supplies In direct response to this reality this book focuses on the water energy food nexus and describes in depth the challenges and processes involved in efficient water and energy production and management wastewater treatment and impact upon food and essential commodities The book is organized into 4 sections on water food energy and the future of sustainability highlighting the interplay among these topics The first section emphasizes water desalination water management and wastewater treatment The second section discusses cereal processing sustainable food security bioenergy in food production water and energy consumption in food processing and mathematical modeling for food undergoing phase changes The third section discusses fossil fuels biofuels synthetic fuels renewable energy and carbon capture Finally the book concludes with a discussion of the future of sustainability including coverage of the role of molecular thermodynamics in developing processes and products green engineering in process systems petrochemical water splitting petrochemical approaches to solar hydrogen generation design and operation strategy of energy efficient processes and the sustainability of process supply chain and enterprise

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