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Ennio Macchi, Marco Astolfi, 2016-08-24 Organic Rankine Cycle ORC Power Systems Technologies and Applications provides a systematic and detailed description of organic Rankine cycle technologies and the way they are increasingly of interest for cost effective sustainable energy generation Popular applications include cogeneration from biomass and electricity generation from geothermal reservoirs and concentrating solar power installations as well as waste heat recovery from gas turbines internal combustion engines and medium and low temperature industrial processes With hundreds of ORC power systems already in operation and the market growing at a fast pace this is an active and engaging area of scientific research and technical development The book is structured in three main parts i Introduction to ORC Power Systems Design and Optimization ii ORC Plant Components and iii Fields of Application Provides a thorough introduction to ORC power systems Contains detailed chapters on ORC plant components Includes a section focusing on ORC design and optimization Reviews key applications of ORC technologies including cogeneration from biomass electricity generation from geothermal reservoirs

and concentrating solar power installations waste heat recovery from gas turbines internal combustion engines and medium and low temperature industrial processes Various chapters are authored by well known specialists from Academia and ORC manufacturers

Handbook of Heterocyclic Corrosion Inhibitors Chandrabhan Verma,2023-12-21 Handbook of Heterocyclic Corrosion Inhibitors presents a comprehensive overview of corrosion inhibition using heterocyclic compounds It covers numerous emerging heterocyclic compound based industrial corrosion inhibitors that are oriented toward minimizing corrosive damages and prevention methods Describing the fundamentals of heterocycles corrosion and corrosion inhibition the book considers the potential of different series of N heterocycles such as acridine and acridone based carbazole based imidazole and imidazoline based indole and indoline based melamine based etc It presents the corrosion inhibition potential of oxygen and sulfur based heterocycles compounds The book also explores issues with corrosion as a result of improper design with descaling acidification refinery and transport processes The book will be of interest to researchers and graduate students studying corrosion science heterocyclic chemistry material science and engineering energy chemistry and colloid science It will also be a valuable reference for corrosion scientists and R D engineers working in industrial corrosion and industrial based corrosion protection systems

Core Values: the Role of Core in Twenty-first Century Reservoir Characterization A. Neal,M. Ashton,L.S. Williams,S.J. Dee,T.J.H. Dodd,J.D. Marshall,2023-11-21 Deep subsurface characterization technologies and demands are changing rapidly within the energy industry In this swiftly evolving landscape the wide range of analyses performed on the rocks and fluids obtained from cores remain fundamental tools in managing subsurface uncertainty and associated risk During the energy transition large volumes of newly acquired and legacy core will be accessed to better understand both existing hydrocarbon resources and other subsurface energy related systems particularly for carbon capture utilization and storage CCUS geothermal energy and the long term storage of nuclear waste Through state of the art reviews and case studies this volume illustrates how innovative approaches continue to create value from both new and historical cores recovered for deep subsurface reservoir characterization and storage complex evaluation Such an assessment is timely given that the sector sits at a pivotal point in terms of changing technologies economics demographics skillsets and energy solutions

Management of Greywater in Developing Countries Radin Maya Saphira Radin Mohamed,Adel Ali Saeed Al-Gheethi,Amir Hashim Mohd Kassim,2018-05-04 This book reviews the consequences of improper disposal of greywater into the environment and the most appropriate treatment technologies for developing countries focusing on the potential to reuse greywater as a production medium for biomass and bio products It also describes the quantities and qualitative characteristics as well as the common practice of discharging greywater in developing countries and highlights the associated health risks Further it compares the management of greywater in developed and developing countries and explores the advantages and disadvantages of various treatment technologies discussing the reuse of greywater for irrigation purposes in arid and sub arid countries especially in the Middle East The book shows the benefits

of greywater and introduces low cost technologies based on the available local facilities can be used to discharge reuse and recycle it

Micro Fluidization Guangwen Xu,Dingrong Bai,Mingyan Liu,Vladimir Zivkovic,2023-05-20 Micro Fluidization Fundamentals and Applications provides background and history on micro fluidized bed research and development summarizes and analyzes the hydrodynamic characteristics of gas solid micro fluidized beds and delves into areas such as research results of delayed onsets of minimum bubbling and slugging fluidization regimes as well as of the advanced transitions to turbulent and fast fluidization regimes Based on these results the wall effects the key mechanism resulting in the unique behavior of micro fluidization are analyzed Other sections discuss gas and solid mixing characteristics in terms of gas residence time distribution gas backmixing and solids mixing Final sections focus on presentations of the so called micro fluidized bed reaction analyzer MFBRA a powerful tool for catalyst screening process development optimization of reaction parameters studies of reaction mechanism and kinetics among many other purposes The book describes in detail the MFBRA s system design characteristics analytic methodologies and various applications in thermochemical and catalytic reaction analysis Includes up to date information all related research results and insights on micro fluidized beds including how they are comprehensively summarized and analyzed Describes and explains the unique characteristics of micro fluidized beds Covers the fundamental aspects and applications related to gas solids liquid solids and gas liquid solids micro fluidized beds Provides up to date and potential applications of micro fluidized beds *Creative Resistance* Sabine Damir-Geilsdorf,Stephan Milich,2020-04-02 During the uprisings of the Arab Spring between 2010 and 2012 oppositional movements used political humor to criticize political leaders or to expose the absurdities of the socio political conditions These humorous expressions in various art forms such as poetry stand up comedy street art music caricatures cartoons comics and puppet shows were further distributed in the social media This first comprehensive study of political humor in the uprisings explores the varieties and functions of political humor as a creative tool for resistance It analyzes humorous forms of cultural expression and their impact on socio political developments in different countries of the Middle East and North Africa with a special focus on the changing modes of humor

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