

Organic Rankine Cycle Pdf

Andrea De Pascale

Structural Optimization and Experimental Investigation of the Organic Rankine Cycle for Solar Thermal Power Generation Jing Li, 2014-12-09 Compared to the conventional Rankine cycle using water, the ORC can create efficient expansion at low power, avoid superheater and offer higher thermal efficiency in low temperature application. Small-scale ORCs from several kWe to a few hundred kWe offer great potential for meeting the residential demand on heat and power, and are of growing interest in scientific and technical fields. However, one critical problem is the decreased device efficiency and cost-effectiveness that arises when the ORC is scaled down. In this thesis, the ORC is combined with low concentration-ratio solar collectors. The background, research trend, merits and importance of the solar ORC are described. To reduce the thermodynamic irreversibility and the cost of the system, three innovative solutions are proposed: solar ORC without heat transfer fluid (HTF), which employs two-stage collectors and heat storage units; hybrid solar power generation based on ORC and amorphous silicon cells; osmosis-driven solar ORC. Heat collection, storage and power conversion are optimized. The design, construction and test of a prototype are conducted, demonstrating the feasibility of the ORC for small-scale cogeneration. Special attention is paid to the variable operation and parameter design with respect to the condensation temperature.

Organic Rankine Cycle (ORC) Power Systems 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

Micro turbo expander design for small scale ORC Lorenzo Talluri,2020-12-01 The Tesla expander was first developed by N. Tesla at the beginning of the 20th century. In recent years, due to the increasing appeal towards micro power generation and energy recovery from wasted flows, this cost effective expander technology rose a renovated interest. In the present study, a 2D numerical model is realized and a design procedure of a Tesla turbine for ORC applications is proposed. A throughout optimization method is developed by evaluating the losses of each component. The 2D model results are further exploited through the development of 3D computational investigation, which allows an accurate comprehension of the flow characteristics. Finally, two prototypes are designed, realized and tested. The former one is designed to work with air as working fluid. The second prototype is designed to work with organic fluids. The achieved experimental results confirmed the validity and the large potential applicative chances of this emerging technology in the field of micro sizes, low inlet temperature and low expansion ratios.

Advanced Power Generation Systems Yatish T. Shah,2022-12-21 Advanced Power Generation Systems: Thermal Sources evaluates advances made in heat-to-power technologies for conventional combustion heat and nuclear heat, along with natural sources of geothermal, solar, and waste heat generated from the use of different sources. These advances will render the landscape of power generation significantly different in just a few decades. This book covers the commercial viability of advanced technologies and identifies where more work needs to be done. Since power is the future of energy, these technologies will remain sustainable over a long period of time. Key Features Covers power generation and heat engines Details photovoltaics, thermo-photovoltaics, and thermoelectricity Includes discussion of nuclear and renewable energy as well as waste heat This book will be useful for advanced students, researchers, and professionals interested in power generation and energy industries.

Hybrid Power Cycle Arrangements for Lower Emissions Anoop Kumar Shukla,Onkar Singh,Meeta Sharma,Rakesh Kumar Phanden,J. Paulo Davim,2022-04-26 Hybrid Power Cycle Arrangements for Lower Emissions is an edited book that explores the state-of-the-art for creating effective hybrid power cycles for power generation with lower emission while utilizing different energy sources. The book details energetic and exergetic studies for improving system design and performance of hybrid power cycle arrangements. Chapters in the book provide a systematic approach to the integration and operation of different thermal power cycles with renewable energy sources. The book brings together researchers and practitioners from academia and industry to present their recent and ongoing research and development activities concerning the advancement of hybridization of different conventional and unconventional energy sources to produce efficient and clean energy systems. The book chapters present a range of ongoing research and development activities,

challenges, constraints, and opportunities in both theoretical as well as application aspects of several hybrid technologies for power generation. Several issues such as hybridization of different energy sources, availability, environmental impacts, and power cycle integration are addressed in-depth, making this collection a worthy repository for those working in the field of the power cycles.

Thermoökonomische Bewertung des Organic Rankine Cycles bei der Stromerzeugung aus industrieller Abwärme Markus Preißinger, 2014 Viele Industriezweige sind sehr energieintensiv; für ihre Prozesse benötigen sie nicht nur viel Energie, sondern setzen auch einen großen Teil davon wieder als Wärme frei. Diese kann im günstigen Fall direkt im Prozess oder anderweitig im Betrieb weiterverwendet werden. Meist werden aber große Mengen als Abwärme ungenutzt an die Umgebung abgegeben. Es liegt nahe, solche Abwärme in elektrische Energie umzuwandeln, der als Strom leichter zu transportieren ist als Wärme. Als eine hierfür besonders aussichtsreiche Technologie hat sich der Organic Rankine Cycle (ORC) erwiesen. Im Unterschied zum konventionellen Dampfkraftprozess wird hierbei als Arbeitsmedium nicht Wasser sondern ein organisches Fluid eingesetzt. Hierzu sind die Prozessführung und einige Anlagenkomponenten an das jeweilige Arbeitsmittel anzupassen. Jede nichtoptimale Auslegung verschlechtert die Wirtschaftlichkeit und engt den Markt der auch ökonomisch sinnvollen Anwendungen ein. In diesem Band wird eine systematische thermoökonomische Beschreibung des ORC-Prozesses vorgestellt, wobei besonders der Anwendungsbereich der industriellen Abwärme untersucht wird.

Organic Rankine Cycle for Energy Recovery System Andrea De Pascale, 2020-06-18 The rising trend in the global energy demand poses new challenges to humankind. The energy and mechanical engineering sectors are called to develop new and more environmentally friendly solutions to harvest residual energy from primary production processes. The Organic Rankine Cycle (ORC) is an emerging energy system for power production and waste heat recovery. In the near future, this technology can play an increasing role within the energy generation sectors and can help achieve the carbon footprint reduction targets of many industrial processes and human activities. This Special Issue focuses on selected research and application cases of ORC-based waste heat recovery solutions. Topics included in this publication cover the following aspects: performance modeling and optimization of ORC systems based on pure and zeotropic mixture working fluids; applications of waste heat recovery via ORC to gas turbines and reciprocating engines; optimal sizing and operation of ORC under combined heat and power and district heating application; the potential of ORC on board ships and related issues; life cycle analysis for biomass application; ORC integration with supercritical CO₂ cycle; and the proper design of the main ORC components, including fluid dynamics issues. The current state of the art is considered and some cutting-edge ORC technology research activities are examined in this book.

Working Fluid Selection for Organic Rankine Cycle and Other Related Cycles Attila R. Imre, 2020-06-16 The world's energy demand is still growing, partly due to the rising population, partly to increasing personal needs. This growing demand

has to be met without increasing (or preferably, by decreasing) the environmental impact. One of the ways to do so is the use of existing low-temperature heat sources for producing electricity, such as using power plants based on the organic Rankine cycle (ORC). In ORC power plants, instead of the traditional steam, the vapor of organic materials (with low boiling points) is used to turn heat to work and subsequently to electricity. These units are usually less efficient than steam-based plants; therefore, they should be optimized to be technically and economically feasible. The selection of working fluid for a given heat source is crucial; a particular working fluid might be suitable to harvest energy from a 90 °C geothermal well but would show disappointing performance for well with a 80 °C head temperature. The ORC working fluid for a given heat source is usually selected from a handful of existing fluids by trial-and-error methods; in this collection, we demonstrate a more systematic method based on physical and chemical criteria.

What Every Engineer Should Know about the Organic Rankine Cycle and Waste Energy Recovery Ali H.

Tarrad, 2022-08-05 This book deals with issues related to the efficient utilization of available energy in industrial sites. It also provides a recipe for minimizing the Global Warming Potential (GWP) and reducing the impact of Ozone Depletion Potential (ODP) on nature, and presents a variety of insights into thermodynamics, heat transfer, and energy management for teaching purposes. The book will assist beginner and senior engineers to deal with energy issues from a more global perspective.

Sustainable Bioenergy Production Lijun Wang, 2014-04-18 Given the environmental concerns and declining availability of fossil fuels, as well as the growing population worldwide, it is essential to move toward a sustainable bioenergy-based economy. However, it is also imperative to address sustainability in the bioenergy industry in order to avoid depleting necessary biomass resources. Sustainable Bioenergy Production provides comprehensive knowledge and skills for the analysis and design of sustainable biomass production, bioenergy processing, and biorefinery systems for professionals in the bioenergy field. Focusing on topics vital to the sustainability of the bioenergy industry, this book is divided into four sections: Fundamentals of Engineering Analysis and Design of Bioenergy Production Systems, Sustainable Biomass Production and Supply Logistics, Sustainable Bioenergy Processing, and Sustainable Biorefinery Systems. Section I covers the fundamentals of genetic engineering, novel breeding, and cropping technologies applied in the development of energy crops. It discusses modern computational tools used in the design and analysis of bioenergy production systems and the life-cycle assessment for evaluating the environmental sustainability of biomass production and bioenergy processing technologies. Section II focuses on the technical and economic feasibility and environmental sustainability of various biomass feedstocks and emerging technologies to improve feedstock sustainability. Section III addresses the technical and economic feasibility and environmental sustainability of different bioenergy processing technologies and emerging technologies to improve the sustainability of each bioenergy process. Section IV discusses the design and analysis of biorefineries and different biorefinery systems, including lignocellulosic feedstock, whole-crop, and green biorefinery.

Current Problems in Experimental and Computational Engineering Nenad Mitrovic, Goran Mladenovic, Aleksandra Mitrovic, 2021-11-18 The book is a collection of high-quality peer-reviewed research papers presented at the International Conference of Experimental and Numerical Investigations and New Technologies (CNNTech2021) held at Zlatibor, Serbia, from June 29 to July 2, 2021. The book discusses a wide variety of industrial, engineering, and scientific applications of the engineering techniques. Researchers from academia and industry present their original work and exchange ideas, experiences, information, techniques, applications, and innovations in the field of mechanical engineering, materials science, chemical and process engineering, experimental techniques, numerical methods, and new technologies.

Sustainable Development and Innovations in Marine Technologies Selma Ergin, C. Guedes Soares, 2022-09-13 Sustainable Development and Innovations in Marine Technologies includes the papers presented at the 19th International Congress of the International Association of the Mediterranean (IMAM 2022, Istanbul, Turkey, 26-29 September 2022), one of the major conferences in maritime industry. The Congress has a history of more than forty years since the first Congress was held in Istanbul in 1978. IMAM 2022 is the fourth congress hosted by Istanbul in its history. The IMAM congresses concentrate their activities in the thematic areas of Ship Building and Repair; Maritime Transportation and Logistics; Hydrodynamics, Marine Structures; Machinery and Control, Design and Materials; Marine Environment; Safety of Marine Systems; Decarbonisation and Digitalization; Off-shore and Coastal Development; Noise and Vibration; Defense and Security; Off-shore Renewable Energy. Sustainable Development and Innovations in Marine Technologies is essential reading for academics, engineers and all professionals involved in sustainable and innovative marine technologies.

Small-Scale Renewable Energy Systems Sven Ruin, Göran Sidén, 2019-10-16 A revolution is ongoing in the field of small-scale energy solutions, which can enable lower impact on the environment, more robust supply and self-determination. Solar power and other forms of renewable energy sources, which you can implement to generate your own electricity, are growing quickly. Electromobility is transforming the car industry and transportation systems and can also play a role in your energy system. Electricity can be used much more efficiently than before, for example by using LED light, variable speed motor drives and efficient home appliances. Smart controls are available, sometimes with free open source software. All this opens up tremendous opportunities for energy independence, which is the focus of this book. The book introduces the reader to a number of renewable energy sources, to different options for storing electricity and to smart use of electricity, particularly in the context of small isolated systems. This is important because many renewable energy sources are weather- and season-dependent and usually require storage and smart control, in order to obtain a system that is completely independent of the electricity grid. In the book, overall system design is explained, including how to combine different sources in a hybrid system. Different system sizes and architectures are also covered. A number of real cases are described, where homes, businesses and communities have achieved a high level of energy independence or are on their way to achieving it. This book

will prove useful in university education in renewable energy at bachelor and master level, and also for companies and private individuals, who want to start or expand activities in the area of renewable energy.

Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of literature sources, the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems. The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth, and environmental, social and economic impacts are also addressed. Topics covered include: Volume 1 - Renewable Energy: Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy. Volume 2 - Clean Energy Conversion Technologies: Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration. Volume 3 - Mitigation Technologies: Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy. Volume 4 - Intelligent Energy Systems: Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern Electrical Systems; Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement. Volume 5 - Energy Storage: Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems. Volume 6 - Sustainability of Energy Systems: Sustainability Indicators, Evaluation Criteria, and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction. Key features: Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields. Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription.

Power Generation Technologies for Low-Temperature and Distributed Heat Christos N. Markides, Kai Wang, 2023-06-13

Power Generation Technologies for Low-Temperature and Distributed Heat presents a systematic and detailed analysis of a wide range of power generation systems for low-temperature (lower than 700-800°C) and distributed heat recovery applications. Each technology presented is reviewed by a well-known specialist to provide the reader with an accurate, insightful and up-to-date understanding of the latest research and knowledge in the field. Technologies are introduced before the fundamental concepts and theoretical technical and economic aspects are discussed, as well as the practical performance expectations. Cutting-edge technical progress, key applications, markets, as well as emerging and future trends are also provided, presenting a multifaceted and complete view of the most suitable technologies. A chapter on various options for thermal and electrical energy storage is also included with practical examples, making this a valuable resource for engineers, researchers, policymakers and engineering students in the fields of thermal energy, distributed power generation systems and renewable and clean energy technology systems. - Presents a wide range of power generation technologies based on thermomechanical cycles, membrane technology, thermochemical, thermoelectric, photoelectric and electrochemical effects - Explains the fundamental concepts and underlying operation principles in each case, and provides theoretical performance expectations and practical technical and economic characteristics - Reviews the cutting-edge technical progress, key applications, markets, emerging and future trends, and includes practical examples of all technologies - Details advantages and disadvantages of each technology to allow the reader to make informed decisions of their own for different applications

Energy and Fuel Systems Integration Yatish T. Shah, 2015-10-15 *Energy and Fuel Systems Integration* explains how growing energy and fuel demands, paired with the need for environmental preservation, require different sources of energy and fuel to cooperate and integrate with each other rather than simply compete. Providing numerous examples of energy and fuel systems integration success stories, this book: Discu

Sustainability in the Mineral and Energy Sectors Sheila Devasahayam, Kim Dowling, Manoj K. Mahapatra, 2016-09-15 Sustainable practices within the mining and energy sectors are assuming greater significance due to uncertainty and change within the global economy and safety, security, and health concerns. This book examines sustainability issues facing the mining and energy sectors by addressing six major themes: Mining and Mineral Processing; Metallurgy and Recycling; Environment; Energy; Socioeconomic and Regulatory; and Sustainable Materials and Fleets. Emphasizing an integrated transdisciplinary approach, it deliberates on optimizing mining productivity and energy efficiency and discusses integrated waste management practices. It discusses risk management, cost cutting, and integration of sustainable practices for long-term business value. It gives a comprehensive outlook for sustainable mineral futures from academic and industry perspectives covering mine to mill optimization, waste, risk and water management, improved efficiencies in mining tools and equipment, and performance indicators for sustainable developments. It covers how innovation and research underpin

management of natural resources including sustainable carbon management. •Focuses on mining and mineral processing, metallurgy and recycling, the environment, energy, socioeconomic and regulatory issues, and sustainable materials and fleets. •Describes metallurgy and recycling and uses economic, environmental and social parameter analyses to identify areas for improvement in iron, steel, aluminium, lead, zinc, copper, and gold production. •Discusses current research on mining, performance indicators for sustainable development, sustainability in mining equipment, risk and safety management, and renewable energy resources •Covers alternative and conventional energy sources for the mineral sector as well water treatment and remediation and energy sustainability in mining. •Provides an overview of sustainable carbon management. •Offers an interdisciplinary approach with international focus.

26th European Symposium on Computer Aided Process Engineering ,2016-06-17 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event held at Portorož Slovenia, from June 12th to June 15th, 2016. Themes discussed at the conference include Process-product Synthesis, Design and Integration, Modelling, Numerical analysis, Simulation and Optimization, Process Operations and Control and Education in CAPE/PSE. - Presents findings and discussions from the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event

Renewable and Waste-Heat Utilization Technologies Nareshkumar B. Handagama,Martin T. White,Paul Sapin,Christos N. Markides,2023-06 Understand the science and engineering behind conventional and renewable heat loss recovery techniques with this thorough reference. Provides you with the knowledge and tools necessary to assess the potential waste-heat recovery opportunities that exist within various industries and select the most suitable technology. In particular, technologies that convert waste heat into electricity, cooling or high-temperature heating are discussed in detail, alongside more conventional technologies that directly or indirectly recirculate heat back into the production process. Essential reading for professionals in chemical, manufacturing, mechanical and processing engineering who have an interest in energy conservation and waste heat recovery.

Thermal Energy Yatish T. Shah,2018-01-12 The book details sources of thermal energy, methods of capture, and applications. It describes the basics of thermal energy, including measuring thermal energy, laws of thermodynamics that govern its use and transformation, modes of thermal energy, conventional processes, devices and materials, and the methods by which it is transferred. It covers 8 sources of thermal energy: combustion, fusion (solar) fission (nuclear), geothermal, microwave, plasma, waste heat, and thermal energy storage. In each case, the methods of production and capture and its uses are described in detail. It also discusses novel processes and devices used to improve transfer and transformation processes.

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