Heat Pumps Kazimierz Brodowicz, Tomasz Dyakowski, M L Wyszynski, Wysynski, 2013-10-22 Heat pumps and related technology are in widespread use in industrial processes and installations. This book presents a unified, comprehensive and systematic treatment of the design and operation of both compression and sorption heat pumps. Heat pump thermodynamics, the choice of working fluid and the characteristics of low temperature heat sources and their application to heat pumps are covered in detail. Economic aspects are discussed and the extensive use of the exergy concept in evaluating performance of heat pumps is a unique feature of the book. The thermodynamic and chemical properties of certain new working fluids and sorbents are also explored. There are considerable pressures on those involved in the use of heat pumps to achieve energy savings and this presents a challenging task in today's industrial climate. This book provides many examples of such energy savings such as the use of large heat pump units utilising various low temperature industrial waste heat sources. Heat Pumps is illustrated throughout by specific solutions as applied worldwide. The subject area is approached logically, covering both design and calculation methods, and is oriented towards the needs of the process user. The treatment given to the selection of working fluids should be compulsory reading. - Chemical Engineer, June 1994


Heat Pumps for Cold Climate Heating Hui Huang, 2020-04-08 Air source heat pumps are mainly used for space heating, and have the advantages of environmental protection, energy saving, and comfort. Written by a leading heat pump technology expert, this book summarizes the research and applications of variable volume ratio two-stage vapor compression air source heat pump technology, and its use in cold climate regions. This book can be used for reference by scientific researchers and engineers engaged in research on air source heat pump technology, product development and popularization; and by energy management and policy researchers. It will also be of value to undergraduate and graduate students studying these areas of technology.

Applications and Efficiency of Heat Pump Systems Ian E. Smith, 2013-11-11 The papers in this collection have
originated from Britain, Eastern and Western Europe and India, with the delegates coming from fifteen countries, including a strong contingent from Japan. This indicates a widespread interest in the application of heat pumps. The heat pump suffers from an environmental dichotomy. On the one hand it saves fossil fuel energy, thereby reducing CO emissions. On the other hand, in the vapour compression form, it generally employs CFCs which are destructive to our protective ozone layer as well as contributing to the greenhouse effect. Taking the first, heat pumps, perhaps have the widest application numerically in the heating (and cooling) of buildings and an excellent paper describes case studies concerning three large Norwegian hotels. In these, heat was pumped from the adjacent river or sea when heating was required, and during the summer, when cooling became necessary, to generate domestic hot water. The heat pumps were installed by SINTEF Refrigeration Engineering, Norway, and have demonstrated payback periods of about two years. The fractional total energy saving of the three hotels was 30% as a result, an impressive figure, indeed. A similar paper by a Belgian architectural consortium shows how this technique can be successfully applied to the cooling of a large television complex where considerable quantities of heat were being generated by the luminaries. In this exercise the cooling load was successfully pumped to provide hot water.

**Dynamic Performance of a Residential Air-to-air Heat Pump** George E. Kelly, John Bean, John W. Bean, 1977

**Heat Pumps** Kay H. Zimmerman, Raleigh H. Powell, 1987-10

**Heat Pumps** Tea Espenson, 2018 In this collection, the authors evaluate the thermal performance of a ground source heat pump (GSHP) system for cooling a typical household in Tunisia. For this purpose, a complete GSHP system model was built by using TRNSYS simulation program, taking into account the hot climatic conditions of northern Tunisia. The authors also discuss metal organic framework (MOF) material, a new class of adsorbent material that has high surface area, high pore volume, highly tunable structural properties and uniform pore size. Heat powered adsorption heat pumps offer the advantage of using waste heat sources and renewable thermal energy, thus reducing fossil fuel consumption and CO₂ emissions. The following chapter presents the major situations where heating and cooling demands could occur simultaneously and be satisfied by heat pumps. The heat pump performance expressed in terms of coefficient of performance and exergy efficiency is then presented for the subcritical vapor-compression thermodynamic cycle. Finally, the integration of such systems in buildings and processes is discussed. Next, the authors seek to demonstrate some antecedents of and technical information on GHPS (Geothermal Heat Pump Systems) on the world, and particularly Mexico. The results of the included study show that sand temperature depends on physical parameters such as grain size, grain shape, quartz grains amount, moisture content and grain color. The final chapter describes alternative options for heat pump placement indoors and outdoors. The described examples focus on the modelling and measurement of noise levels resulting from heat pumps in the project designing stage and the operation stage.

**Heat Pumps** Takamoto Saito, 2013-10-22 It has long been recognized that realizing the potential for energy conservation
and diversification by using heat pumps offers considerable benefits to the environment. Important work on more efficient and ozone-friendly working fluids will further enhance the case for greater support of heat pump research. This book contains the Proceedings of the Third International Energy Agency Conference held in Tokyo in March 1990. The main theme of the Conference, 'Heat Pumps - Solving Energy and Environmental Challenges', is explained in great depth, covering not only technical characteristics but economic factors and the role of government and other bodies in promoting research, and the uses of all types of heat pumps are also fully considered. As well as publishing the papers presented at the meeting, the book also contains the extensive complementary poster sessions from the Conference.

**Heat Pumps** D.B.A. Macmichael, 2013-10-22 A fully revised and extended account of the design, manufacture and use of heat pumps in both industrial and domestic applications. Topics covered include a detailed description of the various heat pump cycles, the components of a heat pump system - drive, compressor, heat exchangers etc., and the more practical considerations to be taken into account in their selection.

**Heat Pump Fundamentals** J. Berghmans, 2012-12-06 This book contains the texts of the lectures which were given at the Nato Advanced Study Institute on Advanced Heat Pumps which was held at Espinho, Portugal in September 1980. A previous NATO Advanced Study Institute on the topic of heat pumps had been held in 1975. The significance of heat pumps with respect to energy conservation was the main topic of this Institute. In 1980 it was felt that considerable research had to be done in order to be able to produce more energy efficient, less costly and more widely applicable heat pumps. This requires a good understanding of the functioning of the types of heat pumps available. The simultaneous coverage of the basic fundamentals of heat pumps of different drive in one lecture series therefore was the goal of the 1980 Advanced Study Institute. Only a few lectures were devoted to heat pump applications. The lectures on heat pump applications were intended to give only a short overview. They were supplemented by lectures on the latest developments on vapour compression as well as sorption systems.

**Heat Pumps for Energy Efficiency and Environmental Progress** J. Bosma, 2012-12-02 The 70 papers collected in this volume present an up to date review of the trends in heat pump technology. The heat pump is reviewed both as being part of a more comprehensive system, and as a refined device providing energy and greenhouse gas emission reductions. Its implementation in a system or process must be carefully considered at an early stage of design or development, and process integration is discussed in detail as a valuable tool for industry. The heat pump is proving to be a highly effective energy conserving tool, particularly when designed and used as an integral part of a system. Environmental benefits are gained when energy is conserved, and heat pumps can make a major contribution in this area. However, some heat pumps use working fluids which are environmentally unfriendly, and the progress that has been made in the field of alternative refrigerants is reported on. The volume will prove an indispensable reference source on the wide-ranging applications that
have been developed since the last international conference, on such topics as heat pump field trials, pilot plants and development programmes.

**Performance Evaluation of a Selected Three-ton Air-to-air Heat Pump in the Heating Mode** A. A. Domingorena, S. J. Ball, 1979

**Heat Pumps**, 1975


**Heat Pump Technology for Saving Energy** M. J. Collie, 1979


This program is designed to provide students and technicians with a comprehensive overview of the heat pump system, its operation, and principles. Heat Pumps; Operation, Installation, and Service is designed to provide the reader with a comprehensive overview of heat pump systems. The manual covers basic principles of operation, system components, air flow, defrost methods, balance point, auxiliary electric heat, electrical control wiring, refrigerant piping, installation, refrigerant charging, troubleshooting, dual fuel systems, and an introduction to geothermal systems. The intent of the book is to offer students and technicians information to build upon, in order to enhance their knowledge of the air conditioning and heating field, and more specifically, heat pumps. Before installing or servicing a heat pump system, the technician must have proper training and knowledge of air conditioning/refrigeration theory, principles and operation. With today's energy demands and costs soaring, there is a tremendous need for highly efficient equipment. These systems pose new demands for installers and service technicians. New heat pump systems with single, dual, and variable capacity are being sold which requires trained technicians with the ability to install, service, and maintain this equipment.

**Heat Conversion Systems** Georg Alefeld, Reinhard Radermacher, 2023-06-14

Heat Conversion Systems develops the underlying concepts of advanced Rankine-based absorption and compression cycles and introduces the Building Block Approach as a general concept. The Building Block Approach identifies all cycle configurations for a given application to ensure that system designers have available all important alternatives. The book features numerous examples of advanced cycles and includes single- and multi-stage absorption heat pumps and heat transformers and combined systems. The book also discusses single- and multi-stage vapor compression systems with multiple solution circuits, multiple compressors, and cascades. Aspects of working fluid selection and their influence on cycle options, performance evaluation, and estimating procedures for the Coefficient of Performance (COP) are addressed. Cycle analysis based on the Second Laws of Thermodynamics is examined. Heat Conversion Systems will be an important source for engineers in air-conditioning, heat pumping, refrigeration, and waste heat utilization. It can be used as text in courses on thermodynamics, efficient use of energy, and environmental protection.
Heat pumps (HPs) allow for providing heat without direct combustion, in both civil and industrial applications. They are very efficient systems that, by exploiting electrical energy, greatly reduce local environmental pollution and CO2 global emissions. The fact that electricity is a partially renewable resource and because the coefficient of performance (COP) can be as high as four or more, means that HPs can be nearly carbon neutral for a full sustainable future. The proper selection of the heat source and the correct design of the heat exchangers is crucial for attaining high HP efficiencies. Heat exchangers (also in terms of HP control strategies) are hence one of the main elements of HPs, and improving their performance enhances the effectiveness of the whole system. Both the heat transfer and pressure drop have to be taken into account for the correct sizing, especially in the case of mini- and micro-geometries, for which traditional models and correlations can not be applied. New models and measurements are required for best HPs system design, including optimization strategies for energy exploitation, temperature control, and mechanical reliability. Thus, a multidisciplinary approach of the analysis is requested and become the future challenge.


The text describes the main features of currently available heat pumps, focusing on system operation and interactions with external heat sources. In fact, before choosing a heat pump, several aspects must be assessed in detail: the actual climate of the installation site, the building’s energy requirements, the heating system, the type of operation etc. After discussing the general working principles, the book describes the main components of compression machines – for EHPs, GHPs and CO2 heat pumps. It then addresses absorption heat pumps and provides additional details on the behavior of two-fluid mixtures. The book presents a performance comparison for the different types, helping designers choose the right one for their needs, and discusses the main refrigerants. Notes on helpful additional literature, websites and videos, also concerning relevant European regulations, round out the coverage. This book will be of interest to all engineers and technicians whose work involves heat pumps. It will also benefit students in energy engineering degree programs who want to deepen their understanding of heat pumps.

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