

# Heat Pipe Design and Technology

A PRACTICAL APPROACH



**Bahman Zohuri**

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# Heat Pipe Design And Technology A Practical Approach

**Bahman Zohuri**



## **Heat Pipe Design And Technology A Practical Approach:**

Heat Pipe Design and Technology Bahman Zohuri, 2011-03-28 With its unique ability to transfer heat over large distances with minimal loss the heat pipe has emerged as a proven environmentally friendly energy saving solution for passive thermal control However until recently the high cost and complex construction use of these marvelous mechanisms has generally limited their use to space technology Written by a former senior chief scientist at Lockheed who has also worked for Westinghouse and the U S Air Force *Heat Pipe Design and Technology A Practical Approach* provides a practical study of modern heat pipe engineering in nuclear and solar energy applications discussing how it can be optimized and made more cost effective for use on a wider scale An introduction to operational and design principles this book explores the use of heat pipes particularly in high heat flux applications and in situations in which there is any combination of non uniform heat loading limited airflow over the heat generating components and space or weight constraints It also discusses design and application of self controlled variable conductance heat pipes for thermal control in spacecraft Offering a review of heat and mass transfer theory relevant to performance the book covers issues that can affect successful heat pipe operation including Balancing of heat pipe loads Compatibility of materials Operating temperature range Power limitations Thermal resistance Operating orientation With its presentation of mathematical models to calculate heat transfer limitations and temperature gradient of both high and low temperature heat pipes the book compares calculated results with the available experimental data from various sources to increase confidence in existing models It also explains where and how readers can access helpful interactive computer codes and a series of computer programs developed by the author to support presented data aid design and predict performance

**Heat Pipes** David Reay, Ryan McGlen, Peter Kew, 2013-10-01 *Heat Pipes* Sixth Edition takes a highly practical approach to the design and selection of heat pipes making it an essential guide for practicing engineers and an ideal text for postgraduate students This new edition has been revised to include new information on the underlying theory of heat pipes and heat transfer and features fully updated applications new data sections and updated chapters on design and electronics cooling The book is a useful reference for those with experience and an accessible introduction for those approaching the topic for the first time Contains all information required to design and manufacture a heat pipe Suitable for use as a professional reference and graduate text Revised with greater coverage of key electronic cooling applications

*Heat Pipe Design and Technology* Bahman Zohuri, 2016-04-28 This book provides a practical study of modern heat pipe engineering discussing how it can be optimized for use on a wider scale An introduction to operational and design principles this book offers a review of heat and mass transfer theory relevant to performance leading into and exploration of the use of heat pipes particularly in high heat flux applications and in situations in which there is any combination of non uniform heat loading limited airflow over the heat generating components and space or weight constraints Key implementation challenges are tackled including load balancing materials characteristics operating

temperature ranges thermal resistance and operating orientation With its presentation of mathematical models to calculate heat transfer limitations and temperature gradient of both high and low temperature heat pipes the book compares calculated results with the available experimental data It also includes a series of computer programs developed by the author to support presented data aid design and predict performance

**Gravity** Taher Zouaghi,2018-02-21 This book deals with different aspects of gravity that has proved its effectiveness throughout the world hence their solicitation in recent years Fundamental theories applications and tools have been presented emphasizing the implementation of the gravity technique Different research themes for diverse areas in the world are detailed here highlighting new methods of studies that could be helpful for sophisticated and modern development over the next few years Four main sections are presented Gravity Interpretation Tools in Geoscience Gravity in Geoscience Applications Gravity in Industrial Technology and Quantum Gravity Theoretical and acquisition tools and adapted processing methods have been designed to take into account the initial data and modeling results thus converge toward a better solution This book which makes a worthwhile contribution to the topic gravity is specifically addressed to specialists researchers and industry professionals who shall find its content extremely useful for a better comprehension of the geological spatial and industrial aspects of gravity

**Neutronic Analysis For Nuclear Reactor Systems** Bahman Zohuri,2016-11-01 This book covers the entire spectrum of the science and technology of nuclear reactor systems from underlying physics to next generation system applications and beyond Beginning with neutron physics background and modeling of transport and diffusion this self contained learning tool progresses step by step to discussions of reactor kinetics dynamics and stability that will be invaluable to anyone with a college level mathematics background wishing to develop an understanding of nuclear power From fuels and reactions to full systems and plants the author provides a clear picture of how nuclear energy works how it can be optimized for safety and efficiency and why it is important to the future

**Porosity** Taher Ghrib,2018-04-26 This book discusses multiways in the porous materials It involves materials with a large number of holes and it highlights the synthesis structure and surface properties of porous materials closely related to more applications such as support catalyst energy storage chemical reactions and optical applications It studies the effect of the filling materials the thermal treatments and the porous density in the improvement of physical properties electrical and energy efficiency and the generation of new materials Some synthetic process will be discussed with the effect of some parameters on the final characteristics of the prepared porous structures

*Advances in Materials and Manufacturing Technology* Ramesh Kumar Nayak,J. Paulo Davim,Rajiv Shekhar,Geoffrey Mitchell,2026-01-01 This book comprises select proceedings of the 3rd International conference on Advances in Materials and Manufacturing Technology ICAMMT 2024 Functional materials smart materials and intelligent materials stand as foundational elements in twenty first century technology irrespective of their designation The evolution of modern structural materials reflects an unprecedented trajectory of scientific and technological progress The book discusses the latest materials manufacturing

processes evaluation of materials properties for the application in automotive aerospace marine locomotive and energy sectors The topics covered include advanced metal forming bending welding and casting techniques recycling and re manufacturing of materials and components materials processing characterization and applications multi physics coupling simulation and optimization alternate materials material substitution thermally enhanced processes and materials composites and polymer manufacturing the fabrication process of nanomaterial powder metallurgy and ceramic forming numerical modelling and simulation advanced machining processes functionally graded materials non destructive examination optimization techniques engineering materials heat treatment material testing MEMS integration energy materials bio materials metamaterials metallography nanomaterial SMART materials application of AI and ML in advanced materials automation and superalloys In addition it discusses industrial applications and cover theoretical and analytical methods numerical simulations and experimental techniques in the area of advanced materials and their applications The recognition of benefits restricting from advanced materials and structures transcends various applications Smart systems offer a streamlined approach to controlling material and system characteristics by autonomously adapting to environmental changes Mechanistic comprehension across disciplines is paramount for developing materials with capabilities that surpass current standards Our conference serves as a cross disciplinary summit transcending organizational and global barriers to integrate research and education in the vital field of advanced materials We focus on major sectors including advanced processing material characterization modelling and simulation properties performance and device fabrication aiming to overlay the way for the next wave of scientific and technological advancements

*Design And Technology Of Heat Pipes For Cooling And Heat Exchange* Cal Silverstein,2020-03-13 This book describes the characteristics of heat pipes under steady state and transient operating conditions It emphasizes the physical aspects of heat pipe behavior and develops design formulas on the basis of mathematical models and empirical observation The author take a tutorial approach presenting information on the application of heat pipe technology design methods and data to heat pipe cooling and heat exchange requirements He provides the nonspecialist with sufficient understanding of heat pipe technology to appreciate and assess its application potential while also meeting the needs of the experienced heat pipe designer and researcher

*Technology for Large Space Systems* ,1986    **Variable Conductance Heat Pipe Technology** ,1973    *Applied Science & Technology Index* ,1997

**Heat Pipe Technology** ,1971    *Technology for Large Space Systems: A Bibliography with Indexes (supplement 14)* ,1986    Energy Technology Richard F. Hill,1982    **International Aerospace Abstracts** ,1998    **Heat Pipes** Yuwen Zhang,2018 Heat pipes are efficient passive devices that can transfer large amounts of heat over long distances with small temperature differences between the heat sources and sinks by evaporation and condensation of the working fluid Heat can be transferred without the use of any mechanically moving parts such as pumps and active controls in heat pipes The vapor and liquid circulate in the conventional heat pipes including thermosiphons via evaporation condensation and capillary or

gravitational forces For pulsating heat pipes liquid slug and vapor plugs in the capillary tube oscillate due to evaporation and condensation The effective thermal conductivity of a heat pipe can be three orders of magnitude higher than that of a copper rod with the same size A heat pipe can find its applications in many sectors of industries including electronics cooling energy systems spacecraft thermal control permafrost cooling and manufacturing This book presents current research and development related to the design applications and technology of various heat pipes including conventional heat pipes and thermosyphon pulsating heat pipes loop heat pipes and variable conductance heat pipes Design tools based on computational fluid dynamics simulation and HSHPTM *Space Technology & Applications International Forum (STAIF-96)* Mohamed S. El-Genk,1996 **Current Engineering Practice** ,1979 Vehicle Technology for Civil Aviation: the Seventies and Beyond ,1971 **China Science & Technology Abstracts** ,1985

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