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Pipe Provers M-PIPE User's Manual for the TRW Gaspipe 2 Program: A Vapor-gas Front Analysis Program for Heat Pipes Containing Non-condensible Gas TOPAZ - the Transient One-dimensional Pipe Flow Analyzer User's Manual for the Heat Pipe Space Radiator Design and Analysis Code (Hepsparc) User's Manual for Hptam User's Manual for Hptam User's Manual for Nfpa 921 Topical Report on Pipe Axial Flaw Failure Criteria System Integration Guide, Query Language Reference Manual and Tutorial THEORY AND USER MANUAL FOR OTEC C.W. PIPE PROGRAMS ROTECF AND SEGPIP. User's Manual for QWGRAF, Computer Programs for Water-quality Graphics PIPEJT1 User's Manual Heat Pipe Design and Technology Topical Report on Pipe Axial Flaw Failure Criteria--PAFFC Version 1.0 User's Manual and Software NASA Lewis Steady-State Heat Pipe Code Users Manual Piping and Pipelines Assessment Guide Heat Pipes and Solid Sorption Transformations Pipe axial flaw failure criteria (PAFFC) Piping and Pipeline Calculations Manual UNIX User's Manual: Reference guide Probability of Pipe Fracture in the Primary Coolant Loop of a PWR Plant: PRAISE computer code user's manual SWMM windows interface user's manual Functionality, Advancements and Industrial Applications of Heat Pipes Heat Pipes

Flexible Pipes Modifications to SAP IV for Seismic Analyses of Piping Systems with Multisupport Input PIPECAR, Version 1.0 NASA Lewis Steady-state Heat Pipe Code Users Manual The UNIX System User's Manual M23 PVC Pipe Solar Energy Update Pressure Vessel And Piping Technology - Proceedings Of The Seminar Computer Models for Water-Resources Planning and Management MC68020 32-bit Microprocessor User's Manual Tables for the Hydraulic Design of Pipes, Sewers and Channels Energy Research Abstracts MC68030 Enhanced 32-bit Microprocessor User's Manual Scientific and Technical Aerospace Reports Nuclear Science Abstracts

This report is designed to help water managers & planners who are not expert in modeling, & modeling experts in one area who are interested in surveying available models in another area. Covers: model development & distribution org's.; general-purpose software; demand forecasting & balancing supply with demand; water distribution system models; ground water models; watershed runoff models; stream, hydraulics models; river & reservoir water quality models; & reservoir/river system operation models. Inventory of selected models appendix. Tables. Covering conduit and channel shapes by tables of properties based on unit size, this work also includes detailed coverage of the possible effects of variation in water temperature within the normal water resources,

as well as considering the treatment of part-full flow in circular pipes. TOPAZ is a ''user friendly'' computer code for modeling the one-dimensional-transient physics of multi-species gas transfer in arbitrary arrangements of pipes, valves, vessels, and flow branches. This document serves as a user's manual for the code, and should provide potential users with enough information to take advantage of many of the code's capabilities. Details regarding equations and numerics, example problems, applications, and modeling assumptions will be discussed in companion documents. This report describes the user's manual for 'HPTAM, ' a two-dimensional Heat Pipe Transient Analysis Model. HPTAM is described in detail in the UNM-ISNPS-3-1995 report which accompanies the present manual. The model offers a menu that lists a number of working fluids and wall and wick materials from which the user can choose. HPTAM is capable of simulating the startup of heat pipes from either a fully-thawed or frozen condition of the working fluid in the wick structure. The manual includes instructions for installing and running HPTAM on either a UNIX, MS-DOS or VMS operating system. Samples for input and output files are also provided to help the user with the code. Tournier, Jean-Michel and El-Genk, Mohamed S. Unspecified Center.. The NASA Lewis heat pipe code was developed to predict the performance of heat pipes in the steady state. The code can be used as a design tool on a personal computer or with a suitable calling routine, as a subroutine for a mainframe

radiator code. A variety of wick structures, including a user input option, can be used. Heat pipes with multiple evaporators, condensers, and adiabatic sections in series and with wick structures that differ among sections can be modeled. Several working fluids can be chosen, including potassium, sodium, and lithium, for which monomer-dimer equilibrium is considered. The code incorporates a vapor flow algorithm that treats compressibility and axially varying heat input. This code facilitates the determination of heat pipe operating temperatures and heat pipe limits that may be encountered at the specified heat input and environment temperature. Data are input to the computer through a user-interactive input subroutine. Output, such as liquid and vapor pressures and temperatures, is printed at equally spaced axial positions along the pipe as determined by the user. Tower, Leonard K. and Baker, Karl W. and Marks, Timothy S. Glenn Research Center RTOP 590-13-21... Developing clean energy and utilizing waste energy has become increasingly vital. Research targeting the advancement of thermally powered adsorption cooling technologies has progressed in the past few decades, and the awareness of fuel cells and thermally activated (heat pipe heat exchangers) adsorption systems using natural refrigerants and/or alternatives to hydrofluorocarbon-based refrigerants is becoming ever more important. Heat Pipes and Solid Sorption Transformations: Fundamentals and Practical

Applications concentrates on state-of-the-art adsorption research and technologies for relevant applications based on the use of efficient heat transfer devices—heat pipe and two-phase thermosyphons—with the objectives of energy efficiency and sustainability. This book also discusses heat pipe thermal control as it relates to spacecraft applications. The first few chapters of Heat Pipes and Solid Sorption Transformations: Fundamentals and Practical Applications focus on heating and cooling, the principles of adsorption, adsorption dynamics, and the availability of three-phase boundaries. Other chapters cover successful heat pipe applications and heat-pipe-based thermal control of fuel cells, solid sorption transformers, and electronic components and air-condition devices. The final chapters summarize the achievements in the field of heat and mass transfer study in heat pipes with variable properties such as gas loaded heat pipes. Several configurations of thermosyphons are showcased, with suggested applications. A number of examples of equipment using the thermosyphon technology are presented and, in the final chapter, the concept of flow boiling and flow condensation heat transfer in micochannels is analyzed in detail. Piping and Pipeline Calculations Manual, Second Edition provides engineers and designers with a quick reference guide to calculations, codes, and standards applicable to piping systems. The book considers in one handy reference the multitude of pipes, flanges, supports, gaskets, bolts,

valves, strainers, flexibles, and expansion joints that make up these often complex systems. It uses hundreds of calculations and examples based on the author's 40 years of experiences as both an engineer and instructor. Each example demonstrates how the code and standard has been correctly and incorrectly applied. Aside from advising on the intent of codes and standards, the book provides advice on compliance. Readers will come away with a clear understanding of how piping systems fail and what the code requires the designer, manufacturer, fabricator, supplier, erector, examiner, inspector, and owner to do to prevent such failures. The book enhances participants' understanding and application of the spirit of the code or standard and form a plan for compliance. The book covers American Water Works Association standards where they are applicable. Updates to major codes and standards such as ASME B31.1 and B31.12 New methods for calculating stress intensification factor (SIF) and seismic activities Risk-based analysis based on API 579, and B31-G Covers the Pipeline Safety Act and the creation of PhMSA A heat pipe space radiatior code (HEPSPARC), was written for the NASA Lewis Research Center and is used for the design and analysis of a radiator that is constructed from a pumped fluid loop that transfers heat to the evaporative section of heat pipes. This manual is designed to familiarize the user with this new code and to serve as a reference for its use. This manual documents the completed work and is intended to be

the first step towards verification of the HEPSPARC code. Details are furnished to provide a description of all the requirements and variables used in the design and analysis of a combined pumped loop/heat pipe radiator system. A description of the subroutines used in the program is furnished for those interested in understanding its detailed workings. Hainley, Donald C. Unspecified Center... A comprehensive, up-to-date coverage of the theory, design and manufacture of heat pipes and their applications. This latest edition has been thoroughly revised, up-dated and expanded to give an in-depth coverage of the new developments in the field. Significant new material has been added to all the chapters and the applications section has been totally rewritten to ensure that topical and important applications are appropriately emphasised. The bibliography has been considerably enlarged to incorporate much valuable new information. Thus readers of the previous edition, which has established itself as the standard text on the subject, will find much additional data of interest whilst new readers will find the vast amount of useful data included in the appendices an indispensable source of reference. Fire Investigator This report describes the user's manual for 'HPTAM, ' a two-dimensional Heat Pipe Transient Analysis Model. HPTAM is described in detail in the UNM-ISNPS-3-1995 report which accompanies the present manual. The model offers a menu that lists a number of working fluids and wall and wick materials from which the user can choose. HPTAM is capable of

simulating the startup of heat pipes from either a fully-thawed or frozen condition of the working fluid in the wick structure. The manual includes instructions for installing and running HPTAM on either a UNIX, MS-DOS or VMS operating system. Samples for input and output files are also provided to help the user with the code. Tournier, Jean-Michel and El-Genk, Mohamed S. Unspecified Cente This reprint volume compiles the works of the author on the building of science in developing countries. The purpose of this volume is to improve the accessibility of the literature on science development for interested individuals especially in the Third World Countries. Recent changes in the codes for building pipelines has led to a boom in the production of new materials that can be used in flexible pipes. With the use of polymers, steel, and other new materials and variations on existing materials, the construction and, therefore, the installation and operation of flexible pipes is changing and being improved upon all over the world. The authors of this work have written numerous books and papers on these subjects and are some of the most influential authors on flexible pipes in the world, contributing much of the literature on this subject to the industry. This new volume is a presentation of some of the most cutting-edge technological advances in technical publishing. This is the most comprehensive and in-depth book on this subject, covering not just the various materials and their aspects that make them different, but every process

that goes into their installation, operation, and design. The thirty-six chapters, divided up into four different parts, have had not just the authors of this text but literally dozens of other engineers who are some of the world's leading scientists in this area contribute to the work. This is the future of pipelines, and it is an important breakthrough. A must-have for the veteran engineer and student alike, this volume is an important new advancement in the energy industry, a strong link in the chain of the world's energy production. Functionality, Advancements and Industrial Applications of Heat Pipes introduces heat pipe technologies and highlights a variety of applications for passive thermal control. The book begins with a thorough analysis of heat pipe infrastructure, including principles of operation, temperature limits, reliability and lessons learned from worked examples and case studies. It also presents a concise design guideline for the assembly of heat pipes. The second part moves on to consider a variety of modern day applications for the heat pipe principles discussed, covering nuclear and solar thermal energy engineering facilities as well as applications in space, in the sea and in the air. A final section works through manufacturing elements of different types of heat pipe to ensure they are well maintained and remain fully operational. This section includes the cleaning of parts, the assembly of the heat pipe, an analysis of gas blockages and how to deal with them, as well as performance versification.

Analyzes a wide variety of heat pipes used in various settings, including constant-conductance heat pipes, loop heat pipes and wrap around heat pipes Considers applications at sea, in the air, on land and in space, including the nuclear and solar energy industries, heat pipes in spacecraft and heat pipe reactors Includes a heat pipe assembly and design guide, as well as an analysis of lessons learned from different case studies "This manual provides the user with both general and technical information to aid in design, procurement, installation, and maintenance of PVC pipe and fittings. This manual presents a discussion of recommended practices"-- Whether it’s called “fixed equipment (at ExxonMobil), “stationary equipment (at Shell), or “static equipment (in Europe), this type of equipment is the bread and butter of any process plant. Used in the petrochemical industry, pharmaceutical industry, food processing industry, paper industry, and the manufacturing process industries, stationary equipment must be kept operational and reliable for companies to maintain production and for employees to be safe from accidents. This series, the most comprehensive of its kind, uses real-life examples and time-tested rules of thumb to guide the mechanical engineer through issues of reliability and fitness-for-service. This volume on piping and pipeline assessment is the only handbook that the mechanical or pipeline engineer needs to assess pipes and pipelines for reliability and fitness-for-service. * Provides essential insight to make informed decisions

on when to run, alter, repair, monitor, or replace equipment * How to perform these type of assessments and calculations on pipelines is a ‘hot' issue in the petrochemical industry at this time * There is very little information on the market right now for pipers and pipeliners with regard to pipe and pipeline fitness-for-service 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.

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