

Pumping System Assessment Tool User's Manual

PSAT2008

Don Casada, Diagnostic Solutions, LLC

About this manual

The Pumping System Assessment Tool (PSAT) is designed to allow users to evaluate the potential energy savings opportunities of pumping systems based on field-measured data. This user's guide document gives basic information about the data entry items, the calculated results, and assorted control button features. It is not intended to provide a tutorial on how to obtain field data or perform pumping system evaluations. The U.S. Department of Energy sponsors both end-user and specialist workshops on those subjects. International affiliates are also undertaking similar efforts. A listing of currently planned training sessions is available on the web at:

<http://www1.eere.energy.gov/industry/bestpractices/training.html>

Support from the U.S. Department of Energy

The U.S. Department of Energy supports the operation of the EERE Information Center at:

http://www1.eere.energy.gov/industry/bestpractices/info_center.html

Users may call (1-877-337-3463) or e-mail (eeinfo@ee.doe.gov) the EERE Information Center with questions about program operation or technical questions related pumping system operating efficiency.

Manual organization

This manual is organized by general section of the main and supporting panels. Following an overview, each section is covered, with descriptions of the individual control or indication items within that section. Links to the overview and sections are provided below.

[Main panel layout](#)

[Main panel overview](#)

[Pump, fluid section](#)

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Help screens while using PSAT

Most of the descriptions covered in this manual are also available as help popups when running PSAT. To enable help windows, simply type "Ctrl-H" or click on the Help menu, and select "Show Context Help". Repeat those steps to toggle the help screens off.

Psat User Manual

IM Harris



Psat User Manual:

Analysis of Steam Chugging Phenomena: User's manual for the CHUG 1 computer program ,1979 **Interactive**

Thermodynamics V1.5 with User's Manual Michael J. Moran,Howard N. Shapiro,Intellipro, Inc.,Ron M.

Nelson,1998-08-13

Experimental and Theoretical Investigations of the Physical Processes Related to the Retention Capability of a Double Screen Element against Liquid Hydrogen in Earth's Gravity and in Microgravity with Respect to the Applied Stimuli André Pingel,2022-08-04 Metal screens are commonly used as components for fluid handling in spacecraft and rocket tank designs In most cases the screens perform a passive separation of the propellant phases The separation of the liquid from the gaseous propellant phase is a special challenge Liquid gas phase separation means that the gaseous phase is allowed to enter a phase separation device while the liquid phase is blocked The technical application of this process is the depressurization in a propellant tank A certain amount of the gaseous propellant phase is vented from the tank through the gas port The liquid propellant phase remains in the tank in order to be stored for the engine However if the tank causes a liquid movement during the depressurization a part of the liquid can potentially enter the gas port In order to prevent the unwanted liquid outflow a separation of the liquid from the gas is necessary This is possible with the aid of a double screen element and has already been performed for storable liquids in Earth s gravity and microgravity as well as for cryogenic liquids in Earth s gravity At the current state of the art the separation of the liquid from the gaseous phase of the cryogenic propellant hydrogen using a double screen element has not been performed in microgravity However with regard to a possible application it is mandatory to investigate the function of the double screen element for the real propellant under relevant environmental conditions In this work a cryogenic test facility has been developed and operated successfully under Earth s gravity and microgravity conditions using the drop tower at the University of Bremen Hereby the original cryogenic propellant phases liquid and gaseous hydrogen have been used The experiments show the appearance of the physical processes which are related to the retention capability of a double screen element against liquid hydrogen Furthermore these physical processes can obviously be influenced by an unknown boundary condition at the screens the screen saturation This unknown boundary condition in turn can obviously be influenced by a certain stimulus which causes a special fluid mechanical process A simplified mathematical and two numerical models have been developed which combine the observed physical processes in the experiments Two fitting parameters are introduced which influence the flow through screen pressure loss of the liquid and the gaseous hydrogen phase After the fitting to experimental data the two fitting parameters have been interpreted with respect to a possible screen saturation The results lead to a prediction of the unknown boundary condition and indicate that a partial saturation of the screens with liquid could be present in each considered experiment This can possibly lead to a major influence of the overall resistance of the double screen element against liquid hydrogen *Police Allocation Manual User's Guide* Northwestern University (Evanston, Ill.).

Traffic Institute,1991 *CryoTran User's Manual, Version 1.0* Glenn R. Cowgill,1989 Professor Dave's Owner's Manual for the SAT David Schoen,2012-04-17 Home Study Edition A comprehensive accessible and powerful guide to SAT test score success Get the score you need to get into the college of your dreams This manual covers the entire SAT exam with smart tips techniques and strategies to help you OWN the SAT Full live and web support included throughout the preparation process The P-STAT User's Manual ,1986 Model Validation for Power System Frequency Analysis Hossein Seifi,Hamed Delkhosh,2018-10-16 This book examines the role of model validation of power system planning and operation to optimize its performance in terms of frequency control It presents the detailed model validation for the Iranian Power Grid system where the frequency performance was analysed and improved using existing and new standard models to identify the influencing parameters Although the model validation was employed for a specific practical large scale system the framework concepts methods and formulations can be used for by any type of power system As such this book describing a generalized framework for model validation with a real case study is useful for both power industry experts and academia Analytical Writing and Thinking Instructor's Manual Myra J. Linden,Arthur Whimbey,2013-11-19 First Published in 1990 Routledge is an imprint of Taylor Francis an informa company *NCAA Division I Operating Manual* National Collegiate Athletic Association,1993 **Handbook of Educational Psychology** Lyn Corno,Eric M. Anderman,2015-07-06 The third edition of the Handbook of Educational Psychology is sponsored by Division 15 of the American Psychological Association In this volume thirty chapters address new developments in theory and research methods while honoring the legacy of the field s past A diverse group of recognized scholars within and outside the U S provide integrative reviews and critical syntheses of developments in the substantive areas of psychological inquiry in education functional processes for learning learner readiness and development building knowledge and subject matter expertise and the learning and task environment New chapters in this edition cover topics such as learning sciences research latent variable models data analytics neuropsychology relations between emotion motivation and volition EMOVO scientific literacy sociocultural perspectives on learning dialogic instruction and networked learning Expanded treatment has been given to relevant individual differences underlying processes and new research on subject matter acquisition The Handbook of Educational Psychology Third Edition provides an indispensable reference volume for scholars in education and the learning sciences broadly conceived as well as for teacher educators practicing teachers policy makers and the academic libraries serving these audiences It is also appropriate for graduate level courses in educational psychology human learning and motivation the learning sciences and psychological research methods in education and psychology The Coen & Hamworthy Combustion Handbook Stephen Londerville,Charles E. Baukal Jr.,2013-03-25 The rigorous treatment of combustion can be so complex that the kinetic variables fluid turbulence factors luminosity and other factors cannot be defined well enough to find realistic solutions Simplifying the processes The Coen Hamworthy Combustion Handbook provides practical guidance to help you make

informed choices about fuels burned

Handbook of Research on Power and Energy System Optimization Kumar,

Pawan, Singh, Surjit, Ali, Ikbal, Ustun, Taha Selim, 2018-03-16 In recent years the development of advanced structures for providing sustainable energy has been a topic at the forefront of public and political conversation Many are looking for advancements on pre existing sources and new and viable energy options to maintain a modern lifestyle The Handbook of Research on Power and Energy System Optimization is a critical scholarly resource that examines the usage of energy in relation to the perceived standard of living within a country and explores the importance of energy structure augmentation Featuring coverage on a wide range of topics including energy management micro grid and distribution generation this publication is targeted towards researchers academicians and students seeking relevant research on the augmentation of current energy structures to support existing standards of living *The New York Times Manual of Style and Usage, 5th Edition* Allan M. Siegal, William Connolly, 2015-09-29

The premier source for journalists now revised and updated for 2015 Does the White House tweet Or does the White House post on Twitter Can text be a verb and also a noun When should you link For anyone who writes short stories or business plans book reports or news articles knotty choices of spelling grammar punctuation and meaning lurk in every line Lay or lie Who or whom That or which Is Band Aid still a trademark It's enough to send you in search of a Martini Or is that a martini Now everyone can find answers to these and thousands of other questions in the handy alphabetical guide used by the writers and editors of the world's most authoritative news organization The guidelines to hyphenation punctuation capitalization and spelling are crisp and compact created for instant reference in the rush of daily deadlines The 2015 edition is a revised and condensed version of the classic guide updated with solutions to problems that plague writers in the Internet age How to cite links and blogs How to handle tweets hashtags and other social media content How to use current terms like transgender or to choose thoughtfully between same sex marriage and gay marriage With wry wit the authors have created an essential and entertaining reference tool **Sources and Composition**

of Ambient Particulate Matter Manousos-Ioannis Manousakas, 2021-09-10 Research related to ambient particulate matter PM remains very relevant today due to the adverse effects that PM have on human health PM are pollutants with varying chemical compositions and may originate from multiple emission sources which directly affects their toxicity To formulate effective control and mitigation strategies it is necessary to identify PM sources and to estimate their influence on ambient PM concentration a process that is known as source apportionment SA Depending on the geographical location and characteristics of an area many anthropogenic and natural sources may contribute to PM concentration levels such as dust resuspension sea salt traffic secondary aerosol formation industrial emissions ship emissions biomass burning power plant emissions etc Different methodological approaches have been used over the years to study the aforementioned topics but some scientific challenges remain mainly related to the following subjects real time chemical analysis and SA uncertainty estimation of SA results and analytical optimization for PM samples Additionally there are areas in the world for which the

results regarding composition and sources of PM are still scarce The objective of this collection was to include studies on all aspects of PM chemical characterization and source apportionment regarding the inorganic and or organic fractions of PM

Research in Education ,1974 Police Allocation Manual Northwestern University (Evanston, Ill.). Traffic
Institute,1992 *Strategies for Optimizing Hybrid Electric Vehicle Powertrains and Progressively Crushing Rails* Nathan
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