

HYSYS Stream Reporter Utility version 1.1, User Guide

James Martin, AEA Technology, Hyprotech, UK Technical Services

26th February 2001

1 Introduction

The HYSYS Stream Reporter (HSR) utility allows material stream conditions, properties and compositions to be easily reported onto a Microsoft Excel spreadsheet. It also enables streams in different cases to be conveniently compared.

HSR can report properties from the following phases: Overall, Vapour, Light and Heavy (/Aqueous) Liquid, Combined Liquid, and Solid. It also allows stream user variables to be reported.

HSR takes the form of an Excel spreadsheet file with embedded Visual Basic for Applications (VBA) code that demonstrates how HYSYS can be accessed programmatically. The VB source code is freely accessible and users are encouraged to learn from it and adapt it to their own needs.

HSR has been fully tested in versions 3.1.1, 3.2, 3.3 and 3.4 of HYSYS but should also work with previous and future versions. (See section 7 for information when using HSR with HYSYS versions other than 3.2). HSR was written using, and fully tested in, Microsoft Excel 97. It's use in Excel 2000 has not been fully tested at the time of writing.

1.1 Changes for version 1.0.1

Combined liquid phase properties now correctly reported. Version 1.0 had a bug where if a combined liquid phase property was selected above a light or heavy liquid property then every time a light liquid property was reported it actually corresponded to the combined liquid.

(Ideal) Liquid Volume flow property for individual phases now reported correctly, previously this reported *Std Liquid Vol Flow*.

Fixed minor bugs concerning deleting worksheets, unnamed (sub) flow sheets, and clarified some error messages.

1.2 Changes for version 1.0.2

Fixed a bug which meant that problems accessing a local/network drive prevented the Cases/Flowsheets/Streams lists being updated.

1.3 Changes for version 1.1

When switching between HYSYS versions, now checks to see if stored units match units available in HYSYS, and updates them if not.

2 Installation

No installation is required, simply copy the Excel spreadsheet file HSR.xls to a convenient location and double click it to open it in Excel.

3 Important Note

This Automation application has been created by Hyprotech Technical Support as an example of what can be achieved through the object architecture of HYSYS. The application is provided for academic purposes only and as such is not part of Hyprotech's normal QA

Hysys 2006 User Guide

**Ibrahim Dincer,Adnan Midilli,Haydar
Kucuk**



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PEM Fuel Cells with Bio-Ethanol Processor Systems Marta S. Basualdo, Diego Feroldi, Rachid Outbib, 2011-10-30 An apparently appropriate control scheme for PEM fuel cells may actually lead to an inoperable plant when it is connected to other unit operations in a process with recycle streams and energy integration PEM Fuel Cells with Bio Ethanol Processor Systems presents a control system design that provides basic regulation of the hydrogen production process with PEM fuel cells It then goes on to construct a fault diagnosis system to improve plant safety above this control structure PEM Fuel Cells with Bio Ethanol Processor Systems is divided into two parts the first covers fuel cells and the second discusses plants for hydrogen production from bio ethanol to feed PEM fuel cells Both parts give detailed analyses of modeling simulation advanced control and fault diagnosis They give an extensive in depth discussion of the problems that can occur in fuel cell systems and propose a way to control these systems through advanced control algorithms A significant part of the book is also given over to computer aided engineering software tools that can be used to evaluate the dynamic performance of the overall plant PEM Fuel Cells with Bio Ethanol Processor Systems is intended for use by researchers and advanced students on chemical electrical electronic and mechanical engineering courses in which dynamics and control are incorporated with the traditional steady state coverage of flowsheet synthesis engineering economics and optimization **Petroleum**

Refinery Process Modeling Y. A. Liu, Ai-Fu Chang, Kiran Pashikanti, 2018-06-05 A comprehensive review of the theory and practice of the simulation and optimization of the petroleum refining processes Petroleum Refinery Process Modeling offers a thorough review of how to quantitatively model key refinery reaction and fractionation processes The text introduces the basics of dealing with the thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling The authors three experts on the topic outline the procedures and include the key data required for building reaction and fractionation models with commercial software The text shows how to filter through the extensive data available at the refinery and using plant data to begin calibrating available models and extend the models to include key fractionation sub models It provides a sound and informed basis to understand and exploit plant phenomena to improve yield consistency and performance In addition the authors offer information on applying models in an overall refinery context through refinery planning based on linear programming This important resource Offers the basic information of thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling Uses the key concepts of fractionation lumps and physical properties to develop detailed models and workflows for atmospheric CDU and vacuum VDU distillation units Discusses modeling FCC catalytic reforming and hydroprocessing units Written for chemical engineers process engineers and engineers for measurement and control this resource explores the advanced simulation tools and techniques that are available to support experienced and aid new operators and engineers Refinery Engineering Ai-Fu Chang, Kiran Pashikanti, Y. A. Liu, 2013-03-01 A pioneering and comprehensive introduction to the complex

subject of integrated refinery process simulation using many of the tools and techniques currently employed in modern refineries Adopting a systematic and practical approach the authors include the theory case studies and hands on workshops explaining how to work with real data As a result senior level undergraduate and graduate students as well as industrial engineers learn how to develop and use the latest computer models for the predictive modeling and optimization of integrated refinery processes Additional material is available online providing relevant spreadsheets and simulation files for all the models and examples presented in the book

Process Analysis and Simulation in Chemical Engineering Iván Darío Gil Chaves,Javier Ricardo Guevara López,José Luis García Zapata,Alexander Leguizamón Robayo,Gerardo Rodríguez Niño,2015-11-27 This book offers a comprehensive coverage of process simulation and flowsheeting useful for undergraduate students of Chemical Engineering and Process Engineering as theoretical and practical support in Process Design Process Simulation Process Engineering Plant Design and Process Control courses The main concepts related to process simulation and application tools are presented and discussed in the framework of typical problems found in engineering design The topics presented in the chapters are organized in an inductive way starting from the more simplistic simulations up to some complex problems

Progress in Exergy, Energy, and the Environment Ibrahim Dincer,Adnan Midilli,Haydar Kucuk,2014-06-17 This thorough and highly relevant volume examines exergy energy and the environment in the context of energy systems and applications and as a potential tool for design analysis optimization It further considers their role in minimizing and or eliminating environmental impacts and providing for sustainable development In this regard several key topics ranging from the basics of the thermodynamic concepts to advanced exergy analysis techniques in a wide range of applications are covered

Collaborative and Distributed Chemical Engineering. From Understanding to Substantial Design Process Support Manfred Nagl,2008-07-18 Summarizes the work of IMPROVE Information Technology Support for Collaborative and Distributed Design Processes in Chemical Engineering a joint project of research institutions at RWTH Aachen University

18th European Symposium on Computer Aided Process Engineering Bertrand Braunschweig,Xavier Joulia,2008-05-15 The 18th European Symposium on Computer Aided Process Engineering contains papers presented at the 18th European Symposium of Computer Aided Process Engineering ESCAPE 18 held in Lyon France from 1 4 June 2008 The ESCAPE series brings the latest innovations and achievements by leading professionals from the industrial and academic communities The series serves as a forum for engineers scientists researchers managers and students from academia and industry to present new computer aided methods algorithms techniques related to process and product engineering discuss innovative concepts new challenges needs and trends in the area of CAPE This research area bridges fundamental sciences physics chemistry thermodynamics applied mathematics and computer sciences with the various aspects of process and product engineering The special theme for ESCAPE 18 is CAPE for the Users CAPE systems are to be put in the hands of end users who need functionality and assistance beyond the scientific and technological

capacities which are at the core of the systems The four main topics are off line systems for synthesis and design on line systems for control and operation computational and numerical solutions strategies integrated and multi scale modelling and simulation Two general topics address the impact of CAPE tools and methods on Society and Education CD ROM that accompanies the book contains all research papers and contributions International in scope with guest speeches and keynote talks from leaders in science and industry Presents papers covering the latest research key top areas and developments in Computer Aided Process Engineering

Communication and Computing Systems B.M.K. Prasad,Krishna Kant Singh,Neelam Ruhil,Karan Singh,Richard O'Kennedy,2017-02-15 This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems ICCCS 2016 Dronacharya College of Engineering Gurgaon September 9 11 2016 The purpose of the conference was to provide a platform for interaction between scientists from industry academia and other areas of society to discuss the current advancements in the field of communication and computing systems The papers submitted to the proceedings were peer reviewed by 2 3 expert referees This volume contains 5 main subject areas 1 Signal and Image Processing 2 Communication Computer Networks 3 Soft Computing Intelligent System Machine Vision and Artificial Neural Network 4 VLSI Embedded System 5 Software Engineering and Emerging Technologies

Achievements in Engineering Sciences Vinod Kumar,You Jin Park,Bale V. Reddy,Amanda F. Wu,2014-04-28 Selected peer reviewed papers from the 2014 3rd International Conference on Manufacturing Engineering and Process ICMEP 2014 April 10 11 2014 Seoul Korea

Petroleum Refining Design and Applications Handbook, Volume 2 A. Kayode Coker,2021-04-13 A must read for any practicing engineer or student in this area There is a renaissance that is occurring in chemical and process engineering and it is crucial for today s scientists engineers technicians and operators to stay current This book offers the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without

Análisis y simulación de procesos en ingeniería química Iván Gil,Javier Guevara,José García,2011-01-01 La simulaci n de procesos es una disciplina transversal a todas las reas de la ingenier a qu mica El desarrollo de muchos proyectos de ingenier a demanda estudios de simulaci n desde los an lisis preliminares de factibilidad el dise o conceptual el dise o detallado hasta la operaci n del proceso Por tal raz n la generaci n de nuevos procesos apoyada en la simulaci n obliga la integraci n de conceptos de la ingenier a qu mica y el desarrollo de habilidades de innovaci n Toda esta integraci n redundo en estudios de controlabilidad y an lisis din mico integraci n energ tica y optimizaci n que buscan cumplir con los requisitos propios de la protecci n ambiental la seguridad de los procesos y la calidad de los productos El libro est dirigido a estudiantes de pregrado de Ingenier a Qu mica e Ingenier a de Procesos como un apoyo para el desarrollo de cursos de simulaci n de procesos dise o de procesos ingenier a de procesos dise o de plantas y

control de procesos Esta publicaci n presenta de manera sencilla los conceptos asociados a la simulaci n de procesos as como ilustrar la aplicaci n de las herramientas de simulaci n en la resoluci n de problemas t picos de la ingenier a de un proceso

Modeling, Analysis and Optimization of Process and Energy Systems F. Carl Knopf, 2011-12-14 Energy costs impact the profitability of virtually all industrial processes Stressing how plants use power and how that power is actually generated this book provides a clear and simple way to understand the energy usage in various processes as well as methods for optimizing these processes using practical hands on simulations and a unique approach that details solved problems utilizing actual plant data Invaluable information offers a complete energy saving approach essential for both the chemical and mechanical engineering curricula as well as for practicing engineers **Introduction to Chemical Engineering** Uche P.

Nnaji, 2019-10-08 The field of chemical engineering is undergoing a global renaissance with new processes equipment and sources changing literally every day It is a dynamic important area of study and the basis for some of the most lucrative and integral fields of science Introduction to Chemical Engineering offers a comprehensive overview of the concept principles and applications of chemical engineering It explains the distinct chemical engineering knowledge which gave rise to a general purpose technology and broadest engineering field The book serves as a conduit between college education and the real world chemical engineering practice It answers many questions students and young engineers often ask which include How is what I studied in the classroom being applied in the industrial setting What steps do I need to take to become a professional chemical engineer What are the career diversities in chemical engineering and the engineering knowledge required How is chemical engineering design done in real world What are the chemical engineering computer tools and their applications What are the prospects present and future challenges of chemical engineering And so on It also provides the information new chemical engineering hires would need to excel and cross the critical novice engineer stage of their career It is expected that this book will enhance students understanding and performance in the field and the development of the profession worldwide Whether a new hire engineer or a veteran in the field this is a must have volume for any chemical engineer s library **Shreir's Corrosion** , 2009-02-27 This four volume reference work builds upon the success of past editions of Elsevier s Corrosion title by Shreir Jarman and Burstein covering the range of innovations and applications that have emerged in the years since its publication Developed in partnership with experts from the Corrosion and Protection Centre at the University of Manchester Shreir s Corrosion meets the research and productivity needs of engineers consultants and researchers alike Incorporates coverage of all aspects of the corrosion phenomenon from the science behind corrosion of metallic and non metallic materials in liquids and gases to the management of corrosion in specific industries and applications Features cutting edge topics such as medical applications metal matrix composites and corrosion modeling Covers the benefits and limitations of techniques from scanning probes to electrochemical noise and impedance spectroscopy

22nd European Symposium on Computer Aided Process Engineering , 2012-12-10 Computer aided process engineering

CAPE plays a key design and operations role in the process industries This conference features presentations by CAPE specialists and addresses strategic planning supply chain issues and the increasingly important area of sustainability audits Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development environmental social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals Contributions from the international community of researchers and engineers using computing based methods in process engineering Review of the latest developments in process systems engineering Emphasis on a systems approach in tackling industrial and societal grand challenges

An Applied Guide to Process and Plant Design Sean Moran, 2019-06-12 An Applied Guide to Process and Plant Design 2nd edition is a guide to process plant design for both students and professional engineers The book covers plant layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design subjects that are usually learned on the job rather than in education You will learn how to produce smarter plant design through the use of computer tools including Excel and AutoCAD What If Analysis statistical tools and Visual Basic for more complex problems The book also includes a wealth of selection tables covering the key aspects of professional plant design which engineering students and early career engineers tend to find most challenging Professor Moran draws on over 20 years experience in process design to create an essential foundational book ideal for those who are new to process design compliant with both professional practice and the IChemE degree accreditation guidelines Includes new and expanded content including illustrative case studies and practical examples Explains how to deliver a process design that meets both business and safety criteria Covers plant layout and the use of spreadsheet programs and key drawings as aids to design Includes a comprehensive set of selection tables covering aspects of professional plant design which early career designers find most challenging

Scale-Up Processes Jamal Chaouki, Rahmat Sotudeh-Gharebagh, 2021-09-20 Common scale up methods are conventional where the blind piloting is essential This imposes huge investment and leads to failures mostly in solid processing However the limitations of resources current shortcomings short time to market demand are forced companies to minimize piloting With these situations in mind current digitalization outlook and computational facilities we proposed and developed a novel iterative scale up method with case studies which highly expedites the process innovation through the following key sequences

Plunkett's Companion to the Almanac of American Employers: Mid-Size Firms: The Only Guide to America's Hottest, Fastest-Growing Mid-Sized Employers Jack W. Plunkett, 2009-03 Contains profiles of hundreds of the best rapidly growing mid size employers of 100 to 2 500 employees These are highly successful companies located nationwide that are of vital importance to job seekers of all types

Plunkett's Transportation, Supply Chain & Logistics Industry Almanac Jack W. Plunkett, 2008-03 A Market research guide to the transportation supply chain and logistics industry a tool for strategic planning competitive intelligence employment searches or financial research It contains trends statistical tables and an

industry glossary It also includes one page profiles of transportation supply chain and logistics industry firms **Natural Gas Hydrates** John Carroll, 2014-10-24 Rarely covered in formal engineering courses natural gas hydrates are a common problem and real life danger for engineers worldwide Updated and more practical than ever Natural Gas Hydrates Third Edition helps managers and engineers get up to speed on all the most common hydrate types how to forecast when they will appear and safely mitigate their removal Known for being highly flammable gas hydrates are a preventable threat that can costs millions of dollars in damage as well as take the lives of workers and engineers on the rig The third edition of Natural Gas Hydrates is enhanced with today s more complex yet practical utilization needs including New hydrate types and formers including mercaptans and other sulfur compounds Vital information on how to handle hydrate formation in the wellbore useful information in light of the Macondo explosion and resulting oil spill More detailed phase diagrams such as ternary systems as well as more relevant multicomponent mixtures Quantifiably measure the conditions that make hydrates possible and mitigate the right equipment correctly Predict and examine the conditions at which hydrates form with simple and complex calculation exercises Gain knowledge and review lessons learned from new real world case studies and examples covering capital costs dehydration and new computer methods

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