

HYSYS Stream Reporter Utility version 1.1, User Guide

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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.

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Manfred Nagl



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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, 2018-02-14 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

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

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

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

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 *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

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

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