

Course Design and Development Process



Course Planning & Designing

- Finalize learning outcomes (measurable course-level outcomes 3-5)
- Chunk course content
- Develop specific learning objectives (specific learning outcomes)
- Develop assessment plans (alignment and Bloom's taxonomy discussed)
- Discuss course structure and potential technologies to be employed (focusing upon peer-to-peer and learner-to-instructor interactions)
- Create video-recording plan (and connections to PPTs or other visuals begin made accessible)
- Discuss how to meet accessibility requirements for video and print sources (including captions, reading order, alt tags)
- Identify materials to gather (textbook or OER resource, publisher content, activities, interactions, etc.)
- Design & build one module draft, including:
 - Required readings
 - Relevant learning activities
 - Supplemental interactions
 - Assessment of objectives

01

Initial Planning

- Develop and agree upon communication plan and project timeline
- Review online course development process
- Define roles and responsibilities
- Hold initial discussion of: Current iteration of course design evaluation, learning outcomes, chunking of course materials, course interaction (student-instructor, student-content, student-student) as well as accessibility, alignment of assessments, technologies, common course elements (netiquette guide, accessibility statement, academic integrity, policies, etc.)



02

03

Course Development

- Design/build all units of instruction in LMS, including:
 - Integrate and publish instructor bio, syllabus, course schedule, etc.



04

Course Finalization

- Create introduction to course
- Create course navigation aid
- Complete course worksheet for review, share with review team



05

Course Review & Revisions

- Complete course review by CDD
- Respond to review, making course revisions as needed
- Nominate course parts (or whole) to share with faculty peers



06

Maintenance Mode

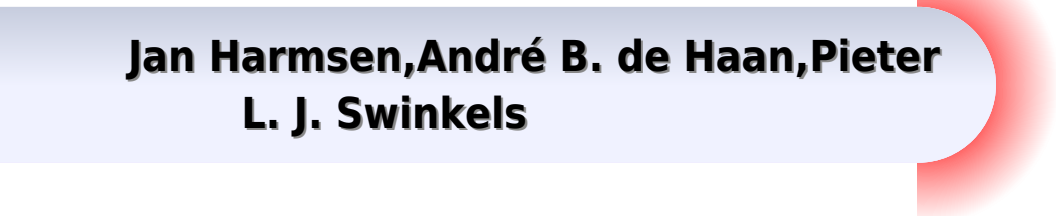
- Course reflection, revisit review after first semester taught
 - Identify areas for improvement
 - Instructor trained to complete course copy/updates
- Review every 3-5 times taught, redesign every 3 years, recommended



PURDUE
UNIVERSITY.

A Course In Process Design

**Jan Harmsen, André B. de Haan, Pieter
L. J. Swinkels**



A Course In Process Design:

A Course in Process Design Thomas K. Sherwood,1963-11-15 **A Course in Process Design** Thomas K. Sherwood,1963 Product and Process Design Jan Harmsen,André B. de Haan,Pieter L. J. Swinkels,2018-05-22 Product and Process Design Driving Innovation is a comprehensive textbook for students and industrial professionals It treats the combined design of innovative products and their innovative manufacturing processes providing specific methods for BSc MSc PDEng and PhD courses Students industrial innovators and managers are guided through all design steps in all innovation stages discovery concept feasibility development detailed engineering and implementation to successfully obtain novel products and their novel processes The authors decades of innovation experience in industry as well as in teaching BSc MSc and post academic product and process design courses thereby including the latest design publications culminate in this book **Integrated Design and Simulation of Chemical Processes** Alexandre C. Dimian,2003-05-13 This title aims to teach how to invent optimal and sustainable chemical processes by making use of systematic conceptual methods and computer simulation techniques The material covers five sections process simulation thermodynamic methods process synthesis process integration and design project including case studies It is primarily intended as a teaching support for undergraduate and postgraduate students following various process design courses and projects but will also be of great value to professional engineers interested in the newest design methods Provides an introduction to the newest design methods Of great value to undergraduate and postgraduate students as well as professional engineers Numerous examples illustrate theoretical principles and design issues **Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents** A. Kayode Coker,2024-07-10 Ludwig s Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents is ever evolving starting with the first edition some 60 years ago The volumes in this fifth edition provide improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to the properly detailed hardware As indicative of the new title process safety incidents are incorporated in many of the chapters reviewing the root causes and how these could be mitigated in future Like its predecessor this new edition continues to present updated information for achieving optimum operational and process conditions and to avoid problems caused by inadequate sizing and lack of internally detailed hardware The volumes provide both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort This approach in presenting design information is essential for troubleshooting process equipment and in executing system performance analysis Volume 1B continues to cover mixing of liquids process safety and pressure 1 relieving devices metallurgy and corrosion and process optimization It builds upon Ernest E Ludwig s classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals This new edition includes new content on three phase separation mixing

of liquids ejectors and mechanical vacuum systems process safety and pressure relieving devices metallurgy and corrosion and optimization of chemical process blending Some chapters review pressure relieving devices and provide case studies for process safety incidents which are well illustrated from US Chemical Safety Hazard Investigation Board www.csb.gov Finally this book contains a glossary of Petroleum and Petrochemical Terminologies and Physical and Chemical Characteristics of Major Hydrocarbons Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers complete range of basic day to day petrochemical operation topics Extensively revised with new material added on three phase separation metallurgy and corrosion Process safety management HAZOP and hazard analyses and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 30 process data sheets in excel format

Sustainability Engineering for Enhanced Process Design and Manufacturing Profitability Jeffery P. Perl, 2024-03-11 Now in an expanded and revised second edition this book explores sustainability engineering through the lens of the manufacturing and chemical process industries to explain the safe and economical implementation of process designs to transform raw materials into valuable finished products The author applies the principles of sustainability science to engineering methodology for residential commercial and industrial applications that support the perpetual availability of raw materials through recycling reuse and repurposing to incorporate inexhaustible supplies and encompasses the management and conservation of these resources in a manner that minimizes negative environmental impacts New sections include Coverage of electric power opportunities and challenges solar wind and cogeneration Efficiency improvement as an energy supply extender Recycling as a material extender The book examines relevant energy policies driving and affecting commercial industrial and residential energy utilization and includes new industrial case studies Anyone involved in the design or manufacture of chemicals or the upgrade of existing manufacturing processes will benefit from this book s suggestions for identifying improvement options while adding the pivotal aspect of sustainability to the usual cost and safety equation optimization elements

A Course in Process Design Sherwood TK., 1963 *Applied Process Design for Chemical and Petrochemical Plants: Volume 2* Ernest E. Ludwig, 1997-11-24 This latest edition covers the technical performance and mechanical details of converting the chemical and petrochemical process into appropriate hardware for distillation and packed towers It incorporates recent advances and major innovations in distillation contacting devices and features new generations of packing In addition this new edition reflects the significant progress that has been made in process design techniques in recent years Volume 2 s example calculation techniques guide in the preparation of preliminary and final rating designs In some instances the book includes manufacturers procedures and notes clearly indicate when manufacturers should verify results Covers distillation and packed towers and contains material on azeotropes and ideal and non ideal

systemsIncludes important findings from recent literature to illustrate alternate design methodsNew illustrations and rating charts *Proceedings of the Symposia on Fundamentals of Electrochemical Process Design*, 1995 Handbook of Food Process Design, 2 Volume Set Jasim Ahmed, Mohammad Shafiur Rahman, 2012-05-21 In the 21st Century processing food is no longer a simple or straightforward matter Ongoing advances in manufacturing have placed new demands on the design and methodology of food processes A highly interdisciplinary science food process design draws upon the principles of chemical and mechanical engineering microbiology chemistry nutrition and economics and is of central importance to the food industry Process design is the core of food engineering and is concerned at its root with taking new concepts in food design and developing them through production and eventual consumption Handbook of Food Process Design is a major new 2 volume work aimed at food engineers and the wider food industry Comprising 46 original chapters written by a host of leading international food scientists engineers academics and systems specialists the book has been developed to be the most comprehensive guide to food process design ever published Starting from first principles the book provides a complete account of food process designs including heating and cooling pasteurization sterilization refrigeration drying crystallization extrusion and separation Mechanical operations including mixing agitation size reduction extraction and leaching processes are fully documented Novel process designs such as irradiation high pressure processing ultrasound ohmic heating and pulsed UV light are also presented Food packaging processes are considered and chapters on food quality safety and commercial imperatives portray the role process design in the broader context of food production and consumption

The Enigmatic Realm of **A Course In Process Design**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **A Course In Process Design** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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