

**NED UNIVERSITY OF ENGINEERING & TECHNOLOGY
FINAL YEAR (CHEMICAL ENGINEERING)
MIDTERM EXAMINATION 2021
BATCH 2019**

**Time: 80 min
Max. Marks: 20**

Dated: 06-12-2022

CHEMICAL PLANT DESIGN (CH-414)

Instructions:

- Attempt all questions.
- Draw a neat and clean diagram necessary.

Question No. 01:

(CLO-1 Taxonomy Level C2- 10 Marks)

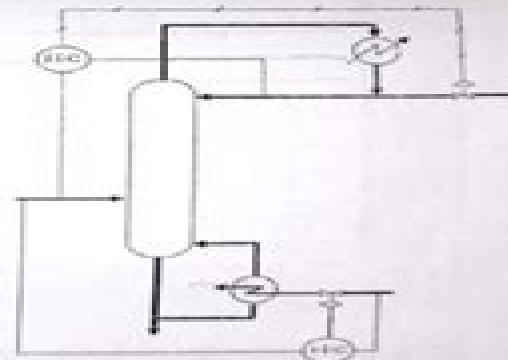
PREPARE a comprehensive design report of a pumping system in which a liquid is contained in a reactor vessel at 11.5 bar absolute pressure. It is transferred to a storage vessel through a 50mm internal diameter commercial steel pipe (roughness = 0.046 mm). The storage vessel is nitrogen blanketed, and pressure above the liquid surface is kept constant at 1500 N/m² gauge. The total run of pipe between the two vessels is 200 m. The miscellaneous losses due to entry and exit losses, fittings, valves, etc., amount to 800 equivalent pipe diameters. The liquid level in the storage vessel is at an elevation 20 m below the level in the reactor. A turbine is fitted in the pipeline to recover the excess energy that is available, over that required to transfer the liquid from one vessel to the other. Estimate the power that can be taken from the turbine, when the liquid transfer rate is 5000 kg/h. Take the efficiency of the turbine as 70%. The properties of the fluid are density 895 kg/m³, viscosity 0.76 mNm⁻²s.

$$\Delta P_f = 8f \left(\frac{L}{d} \right) \frac{\rho u^2}{2}$$

Question No. 02:

(CLO -2 Taxonomy Level C5- 07 + 03 Marks)

- As a Process Design Engineer, you are required to **ASSESS** a distillation column using HAZOP study that separates benzene from toluene using a control scheme shown in Figure. Make a practice HAZOP study of the plant section and add any instrumentation that is needed to develop the full P and I diagram. The figure describes the composition control in which top product take-off and boil-up controlled by feed. Take any two parameters to solve this case.
- The location of the plant can have a crucial effect on the profitability of a project and the scope for future expansion. Many factors must be considered when selecting a suitable site. You are required to **ASSESS** any four site consideration factors as per their importance.



Selected Papers On Chemical Engineering Science

Martyn S Ray

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Selected Papers on Chemical Engineering Science Honoring W. P. M. Van Swaaij W.P.M. van Swaaij,1997

Selected Papers on Chemical Engineering Science Dirk Willem Krevelen, 1976 Insights into Chemical Engineering P. V. Danckwerts,2013-10-22 A selection of papers many of which proved novel and thought provoking and have had a considerable influence on the development of chemical engineering chosen by Professor Danckwerts from research work conducted at Cambridge and Imperial College mainly during the years 1950 1954 and 1957 1973 They are divided into 6 sections with linking critical commentaries

Chemical Engineering: Visions of the World R. C. Darton,D. G. Wood,R. G. H. Prince,2003-05-21 This book presents six visionary essays on the past present and future of the chemical and process industries together with a critical commentary Our world is changing fast and the visions explore the implications for business and academic institutions and for the professionals working in them The visions were written and brought together for the 6th World Congress of Chemical Engineering in Melbourne Australia in September 2001 Identifies trends in the chemicals business environment and their consequences Discusses a wide variety of views about business and technology Describes the impact of newly developing technologies

Program Overview and Selected Papers from the Toxic-Waste Program Technical Meeting U.S. Geological Survey Toxic Substances Hydrology Program. Technical Meeting,Stephen E.

Ragone,Dennis J. Sulam,1987 **Chemical Engineering Design Project** Martyn S Ray,2020-08-12 This new edition follows the original format which combines a detailed case study the production of phthalic anhydride with practical advice and comprehensive background information Guiding the reader through all major aspects of a chemical engineering design the text includes both the initial technical and economic feasibility study as well as the detailed design stages Each aspect of the design is illustrated with material from an award winning student design project The book embodies the learning by doing approach to design The student is directed to appropriate information sources and is encouraged to make decisions at each stage of the design process rather than simply following a design method Thoroughly revised updated and expanded the accompanying text includes developments in important areas and many new references

Intelligent Applications in a Material World Select Papers from IPMM-2001 John A. Meech,2002-11-18 Intelligence in a Materials World contains 87 refereed papers selected from those presented at the Third International Conference on Intelligent Processing and

Manufacturing of Materials The contents span the full scope of the field of materials production and manufacturing from all parts of the world The focus of this book is on practical applications of intelligent hardware and software Topics include New Intelligent Software Methods and Models Production of Raw Materials Biologically Inspired Systems Simulation and Design of New Materials Atomistic and Electronic Modeling Web based Design Metrology and Instrumentation Intelligent Manufacturing Systems Agent based Large Scale System Simulation Environmental Systems Planning and Scheduling Applications in Space Exploration Financial Transactions Materials Forming Rolling and Sheet Metal Systems Machining and

Finishing Processes Language Recognition and Communication Cross Disciplinary Research This book is an essential reference tool for individuals interested in applying state of the art artificial Intelligence and its related modeling methods within areas that deal with materials production and manufacturing from raw materials and ore to final consumer products IPMM is an organization of over 400 individuals from over 45 countries who come together every two years to share in new ideas and applications that use intelligence artificial or otherwise to achieve new designs novel planning methods improved system optimization techniques advanced process control or monitoring methods in different fields dealing with material science and engineering *The Mathematical Understanding of Chemical Engineering Systems* Neal R.

Amundson,2014-05-19 Mathematical Understanding of Chemical Engineering Systems is a collection of articles that covers the mathematical model involved in the practice of chemical engineering The materials of the book are organized thematically into section The text first covers the historical development of chemical engineering and then proceeds to tackling a much more technical and specialized topics in the subsequent sections The second section talks about the physical separation process while the third section deals with stirred tank stability and control Next the book tackles polymerization and particle problems Section 6 discusses empty tubular and fixed bed catalytic reactors while Section 7 details fluid bed reactors and coal combustion In the last two sections the text presents mathematical and miscellaneous papers The book will be most useful to researchers and practitioners of chemical engineering Mathematicians and chemists will also benefit from the text 12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering ,2015-07-14 25th European Symposium on Computer Aided Process Engineering contains the

papers presented at the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Joint Event held in Copenhagen Denmark 31 May 4 June 2015 The purpose of these series is to bring together the international community of researchers and engineers who are interested in computing based methods in process engineering This conference highlights the contributions of the PSE CAPE community towards the sustainability of modern society Contributors from academia and industry establish the core products of PSE CAPE define the new and changing scope of our results and future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE CAPE versus the consolidation of the core topics of PSE CAPE Highlights how the Process Systems Engineering Computer Aided Process Engineering community contributes to the sustainability of modern society Presents findings and discussions from both the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Events Establishes the core products of Process Systems Engineering Computer Aided Process Engineering Defines the future challenges of the Process Systems Engineering Computer Aided Process Engineering community Selected Papers of Robert S. Mulliken Robert S. Mulliken,1975-08 This book brings together in one volume the most important papers of Robert S Mulliken who

was awarded the 1966 Nobel Prize in chemistry for his seminal work on chemical bonds and the electronic structures of molecules. The papers collected here range from suggestive to closely detailed analyses of various topics in the theory of spectra and electronic structure of diatomic and polyatomic molecules. Professor Mulliken has written introductory commentaries on each of the volume's seven parts. Included in the volume are essays of general as well as scientific interest; they are grouped under thematic headings. Part I contains those papers which are of historical significance. An autobiographical piece by Dr. Mulliken offers a glimpse of the many famous people whom he has known. Also reprinted is the text of his Nobel Prize acceptance speech. At the end is a list of his students and other co-workers and a complete bibliography of his papers. Part II includes Mulliken's work on band spectra and chemistry as well as his research on the assignment of quantum numbers for electrons in molecules. Part III surveys the author's early work on the bonding power of electrons and the method of molecular orbitals. Included is a discussion of the structure and spectra of a number of important types of molecules. The papers in part IV focus on the intensities of electronic transitions in molecular spectra. This incorporates Mulliken's work on charge transfer and the halogen molecule spectra. The problems addressed in part V center on the spectra and structure of polyatomic molecules. Reprinted here is a report which Mulliken prepared on notation for polyatomic molecules. Part VI is devoted to the problem of hyperconjugation. These papers develop and apply the concept of hyperconjugation and explore its relation to the concept of conjugation. The last part offers some of the most important papers from the author's postwar publications. The central focus is on molecular orbital theory, the area in which Mulliken's Nobel winning discoveries were made.

Dynamics and Control of Chemical Reactors, Distillation Columns and Batch Processes (DYCORD+ '92) J.G. Balchen, E.D. Gilles, K.V. Waller, J.B. Rawlings, 2014-05-23 In addition to the three main themes chemical reactors, distillation columns and batch processes, this volume also addresses some of the new trends in dynamics and control methodology such as model based predictive control, new methods for identification of dynamic models, nonlinear control theory and the application of neural networks to identification and control. Provides a useful reference source of the major advances in the field.

Selected Water Resources Abstracts, 1990-05 *Monthly Catalog of United States Government Publications*, 1986 Multiphase Particulate Systems in Turbulent Flows Wioletta

Podgórska, 2019-09-17 Multiphase Particulate Systems in Turbulent Flows Fluid Liquid and Solid Liquid Dispersions provides methods necessary to analyze complex particulate systems and related phenomena including physical chemical and mathematical description of fundamental processes influencing crystal size and shape, suspension rheology, interfacial area of drops and bubbles in extractors and bubble columns. Examples of mathematical model formulation for different processes taking place in such systems is shown. Discussing connections between turbulent mixing mechanisms and precipitation it discusses influence of fine scale structure of turbulence including its intermittent character on breakage of drops, bubbles, cells, plant cell aggregates. An important aspect of the mathematical modeling presented in the book is multi fractal taking

into account the influence of internal intermittency on different phenomena Key Features Provides detailed descriptions of dispersion processes in turbulent flow interactions between dispersed entities and continuous phase in a single volume Includes simulation models and validation experiments for liquid liquid gas liquid and solid liquid dispersions in turbulent flows Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory Explains how to solve different forms of population balance equations Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity with exercises and case studies

Monthly Catalogue, United States Public Documents ,1993 Hearings United States. Congress. House. Committee on Education,1969

Hearings United States. Congress. House,1969 Hearings, Reports, Public Laws United States. Congress. House. Committee on Education and Labor,1967

Handbook of Petroleum Refining James G.

Speight,2016-10-26 Petroleum refining involves refining crude petroleum as well as producing raw materials for the petrochemical industry This book covers current refinery processes and process types that are likely to come on stream during the next three to five decades The book includes 1 comparisons of conventional feedstocks with heavy oil tar sand bitumen and bio feedstocks 2 properties and refinability of the various feedstocks 3 thermal processes versus hydroprocesses and 4 the influence of refining on the environment

Resources in Education ,1989

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