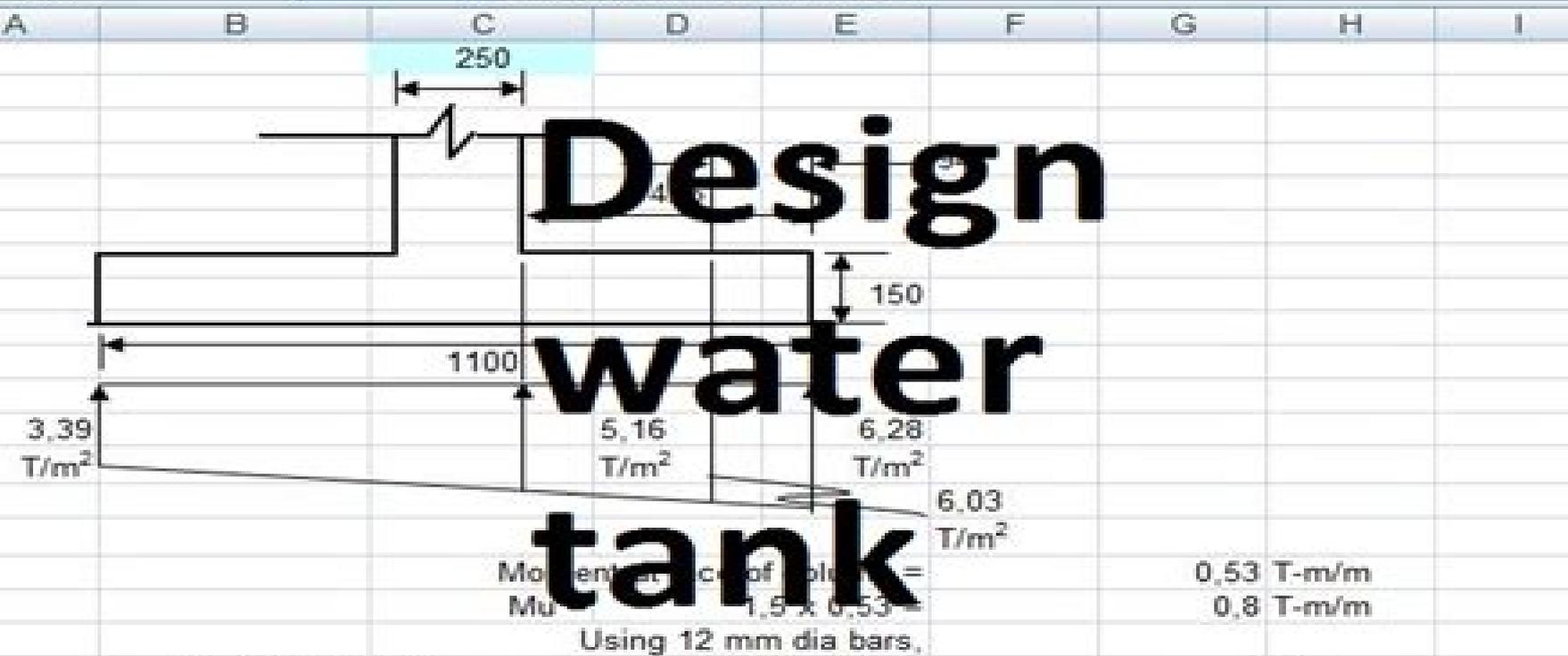


B315 DESIGN OF PLINTH BEAM



Moment at face of column =	0.53 T-m/m
Mu = 1.5 x 0.53 =	0.8 T-m/m
Using 12 mm dia bars,	
Effective depth, $d_{provided} = 150 - 50 - 12/2 =$	94 mm
$d_{required} = \text{SQRT}\{0.8 \times 10^7 / (0.138 \times 20 \times 1000)\} =$	54 mm < $d_{provided}$
$Mu/bd^2 = 0.8 \times 10^7 / (1000 \times 94^2) =$	0.91 N/mm² O.K.
$P_i, required =$	0.216 % (Ref. Table 2 of SP-16)
$A_{st} required = 0.216 \times 1000 \times 94 / 100 =$	203.04 mm²
Spacing required = $1000 \times 113 / 203.04 =$	557 mm
Provided reinforcement dia. =	10 mm
Spacing provided =	200 mm

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Clemens Wendtner



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Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2011-08-30 This complete revision of Applied Process Design for Chemical and Petrochemical Plants Volume 1 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 important supplemental mechanical and related data nomographs and charts. Also included within are improved techniques and fundamental methodologies to guide the engineer in designing process equipment and applying chemical processes to properly detailed equipment. All three volumes of Applied Process Design for Chemical and Petrochemical Plants serve the practicing engineer by providing organized design procedures, details on the equipment suitable for application, selection and charts in readily usable form. Process engineers, designers and operators will find more chemical/petrochemical plant design data in Volume 2 Third Edition which covers distillation and packed towers as well as material on azeotropes and ideal/non-ideal systems. Volume 3 Third Edition which covers heat transfer, refrigeration systems, compression, surge drums and mechanical drivers. A. Kayode Coker is Chairman of Chemical Process Engineering Technology department at Jubail Industrial College in Saudi Arabia. He is both a chartered scientist and a chartered chemical engineer for more than 15 years and an author of Fortran Programs for Chemical Process Design Analysis and Simulation, Gulf Publishing Co and Modeling of Chemical Kinetics and Reactor Design, Butterworth-Heinemann. Provides improved design manuals for methods and proven fundamentals of process design with related data and charts. Covers a complete range of basic day-to-day petrochemical operation topics with new material on significant industry changes since 1995. *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 the 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-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

Freshwater and Marine Aquarium, 2003 **CAD for Fashion Design and Merchandising** Stacy Stewart Smith, 2013-02-20 It takes more than raw talent and passion to make it in today's global apparel and accessories markets excellent computer aided design skills are a prerequisite CAD for Fashion Design and Merchandising allows students to immediately begin creating digital fashion presentations using Adobe Illustrator and Photoshop This book takes an integrated approach allowing students to master the three dimensional benefits of combining the two software programs Colorful illustrations accompany easy step by step tutorials that are geared toward students at the beginner and intermediate levels Because the book uses fashion photography rather than hand drawn illustrations as a basis for demonstrating the proportion of fashion croquis instructors will be able to evaluate students mastery of digital illustration regardless of their hand drawing skills and students will benefit from a seamless transition from creative thought to digital rendering PLEASE NOTE Purchasing or renting this ISBN does not include access to the STUDIO resources that accompany this text To receive free access to the STUDIO content with new copies of this book please refer to the book STUDIO access card bundle ISBN 9781501395345 STUDIO Instant Access can also be purchased or rented separately on BloomsburyFashionCentral.com

The ULTIMATE Tesla Coil Design and Construction Guide Mitch Tilbury, 2007-10-12 Market electronics hobbyists and Tesla societies and websites Features 76 worksheets to simplify design The only book available to cover the Tesla coil in so much detail **RELEASE** David W. Johnson, John L. Woodward, 2010-09-17 This book documents CCPS's Aerosol Research Program to develop a model to predict liquid rainout from release of a pressurized liquefied gas and hence the residual amount of material in a vapor cloud which may be greater than the amount calculated from an enthalpy chart **RELEASE** predicts the rate of fluid discharge the depressurization flashing and formation of liquid drops the entrainment of drops into the vapor cloud the subsequent spreading of the jet and rate of liquid rainout to a pool on the ground Designed in a modular fashion to permit adjustment and corrections as new

data become available its multi layered approach contains sub models that include the complexities of many variables including the effect of liquid superheat rate of bubble growth criterion for bubble formation and heat transfer from the liquid to the growing vapor bubble To validate RELEASE CCPS conducted small and large scale experiments using superheated water heated liquefied chlorine methylamine and cyclohexane that produced valuable data in an area where data are scarce This book gives complete access in text and on CD ROM to the model and the test data giving users an informed ability to apply the model to their own work

Jane's All the World's Aircraft ,2009 *Chemical Engineering for the Food Industry* D. Leo Pyle,Peter J. Fryer,Chris D. Reilly,2012-12-06 Industrial food processing involves the production of added value foods on a large scale these foods are made by mixing and processing different ingredients in a prescribed way The food industry historically has not designed its processes in an engineering sense i e by understanding the physical and chemical principles which govern the operation of the plant and then using those principles to develop a process Rather processes have been designed by purchasing equipment from a range of suppliers and then connecting that equipment together to form a complete process When the process being run has essentially been scaled up from the kitchen then this may not matter However there are limits to the approach As the industry becomes more sophisticated and economies of scale are exploited then the size of plant reaches a scale where systematic design techniques are needed The range of processes and products made by the food industry has increased to include foods which have no kitchen counterpart such as low fat spreads It is vital to ensure the quality and safety of the product Plant must be flexible and able to cope with the need to make a variety of products from a range of ingredients This is especially important as markets evolve with time The traditional design process cannot readily handle multi product and multi stream operations Processes must be energetically efficient and meet modern environmental standards

Physicians & Computers ,1990-05 **Microsoft Visual Basic for Applications (VBA)**. John Sestak,CEP, Inc,Sestak,2000-07 Explore and customize your Office applications with Visual Basic for Applications Beginning Course This text provides a thorough introduction to the Visual Basic for Applications language and features step by step instructions to guide students in programming the Microsoft Office applications Extensive end of chapter exercises also offer plenty of hands on practice and reinforcement

InfoWorld ,1988 **Hot Mix Asphalt Reference Manual 2008-2009** ,2008 **Control Engineering** ,1992 Instrumentation and automatic control systems

Monitor Administration 2010 ,2010 Hot Mix Asphalt Reference Manual 2009-2010 ,2009 **Manual of Industrial Microbiology and Biotechnology** Arnold L. Demain,Julian E. Davies,Ronald M. Atlas,1999 The editors have enlisted a broad range of experts including microbial ecologists physiologists geneticists biochemists molecular biologists and biochemical engineers who offer practical experience not found in texts and journals This comprehensive perspective makes MIMB a valuable how to resource the structure of which resembles the sequence of operation involved in the development of a commercial biological process and product

Application of Advanced Information Technologies

Francisco J. Cantu-Ortiz,1998 The AOPA Pilot ,2003 *Chemical Engineering Progress* ,2003 *Proceedings of the*
2005 Business and Industry Symposium BIS '05 John M. D. Hill,Timothy G. Nix,2005

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Table of Contents Excel Tank Design Xls

1. Understanding the eBook Excel Tank Design Xls
 - The Rise of Digital Reading Excel Tank Design Xls
 - Advantages of eBooks Over Traditional Books
2. Identifying Excel Tank Design Xls
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Excel Tank Design Xls
 - User-Friendly Interface
4. Exploring eBook Recommendations from Excel Tank Design Xls
 - Personalized Recommendations
 - Excel Tank Design Xls User Reviews and Ratings
 - Excel Tank Design Xls and Bestseller Lists
5. Accessing Excel Tank Design Xls Free and Paid eBooks
 - Excel Tank Design Xls Public Domain eBooks
 - Excel Tank Design Xls eBook Subscription Services
 - Excel Tank Design Xls Budget-Friendly Options

6. Navigating Excel Tank Design Xls eBook Formats
 - ePub, PDF, MOBI, and More
 - Excel Tank Design Xls Compatibility with Devices
 - Excel Tank Design Xls Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Excel Tank Design Xls
 - Highlighting and Note-Taking Excel Tank Design Xls
 - Interactive Elements Excel Tank Design Xls
8. Staying Engaged with Excel Tank Design Xls
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Excel Tank Design Xls
9. Balancing eBooks and Physical Books Excel Tank Design Xls
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Excel Tank Design Xls
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Excel Tank Design Xls
 - Setting Reading Goals Excel Tank Design Xls
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Excel Tank Design Xls
 - Fact-Checking eBook Content of Excel Tank Design Xls
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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