

Estimating Pressure Vessels Weights

It is important to be able to estimate vessel weights, since most cost estimating procedures start with the weight of the vessel. The vessel weight, both empty and full with water, may be necessary to adequately design a foundation or to assure that the vessel can be lifted or erected once it gets to the construction site.

The weight of a vessel is made up of the weight of the shell, the weight of the heads, and the weight of internals, nozzles, pedestals, and skirts. The last two terms are defined in Figure 12-3.

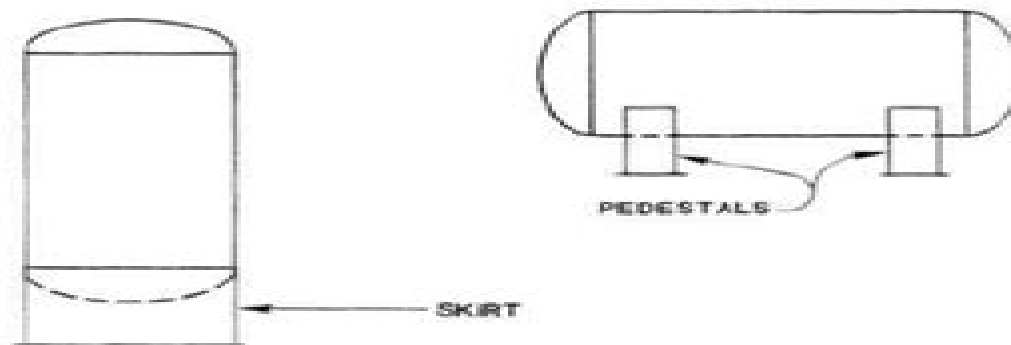


Figure 12-3. Vessel support devices.

The shell weight can be estimated from:

$$W = 11dsL \quad (12-5)$$

where W = weight, lb
 d = ID, in.
 t = wall thickness, in.
 L = shell length, ft.

The weight of one 2:1 ellipsoidal head is approximately:

$$W \cong 0.34 d^2 + 1.9 dt \quad (12-6)$$

The weight of a cone is:

$$W = \frac{0.23\pi d^2}{\sin \alpha} \quad (12-7)$$

α = one half the cone apex angle.

The weight of nozzles and internals can be estimated at 5 to 10% of the sum of the shell and head weights. The weight of a skirt can be estimated as the same weight per foot as the shell with a length given by Equation 12-8 for an ellipsoidal head and Equation 12-9 for a conical head.

Richardson Estimating Manual Pressure Vessels

Stephen M Hall



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The Engineer's Cost Handbook Richard E. Westney, 1997-02-26 Offers coverage of each important step in engineering cost control process from project justification to life cycle costs The book describes cost control systems and shows how to apply the principles of value engineering It explains estimating methodology and the estimation of engineering engineering equipment and construction and labour costs delineates productivity and cash flow analysis and more **Coulson & Richardson's Chemical Engineering** John Metcalfe Coulson, John Francis Richardson, 1996 Coulson and Richardson s classic series provides the student with an account of the fundamentals of chemical engineering and constitutes the definitive work on the subject for academics and practitioners Each book provides clear explanations of theory and thorough coverage of practical applications supported by numerous worked examples and problems Thus the text is designed for students as well as being comprehensive in coverage Volume 6 is an introduction to chemical engineering design This new edition has been fully revised and updated In addition the text has been reset and all diagrams redrawn resulting in a book which is clearer and easier to use than ever before This book will be valuable for not only undergraduate students but also to chemical engineers in industry and chemists and mechanical engineers who have to tackle problems arising in the process industry Chemical Industry Digest **Journal of Mechanisms, Transmissions, and Automation in Design** ,1986 **ASME Technical Papers** ,1985 **Measurement and Safety** Béla G. Lipták, Kriszta Venczel, 2016-11-25 The Instrument and Automation Engineers Handbook IAEH is the 1 process automation handbook in the world Volume one of the Fifth Edition Measurement and Safety covers safety sensors and the detectors of physical properties Measurement and Safety is an invaluable resource that Describes the detectors used in the measurement of process variables Offers application and method specific guidance for choosing the best measurement device Provides tables of detector capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas products their features capabilities and suppliers including suppliers web addresses Complete with 163 alphabetized chapters and a thorough index for quick access to specific information Measurement and Safety is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries About the eBook The most important new feature of the IAEH Fifth Edition is its availability as an eBook The eBook provides the same content as the print edition with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds of topics covered in the handbook This feature includes a complete bidders list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers **Applied Process Design for Chemical and Petrochemical Plants: Volume 1** Ernest E. Ludwig, 1995-02-23 This expanded edition introduces new design methods and is packed with examples design charts tables and performance diagrams to add to the practical understanding of how selected equipment can be expected to perform in the process situation A major addition is

the comprehensive chapter on process safety design considerations ranging from new devices and components to updated venting requirements for low pressure storage tanks to the latest NFPA methods for sizing rupture disks and bursting panels and more Completely revised and updated throughout The definitive guide for process engineers and designers Covers a complete range of basic day to day operation topics **Paper** ,1985 **Instrument and Automation Engineers' Handbook** Bela G. Liptak,Kriszta Venczel,2022-08-31 The Instrument and Automation Engineers Handbook IAEH is the Number 1 process automation handbook in the world The two volumes in this greatly expanded Fifth Edition deal with measurement devices and analyzers Volume one Measurement and Safety covers safety sensors and the detectors of physical properties while volume two Analysis and Analysis describes the measurement of such analytical properties as composition Complete with 245 alphabetized chapters and a thorough index for quick access to specific information the IAEH Fifth Edition is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries **Seedling Processing, Storage, and Outplanting, The Container Tree Nursery Manual . Vol. 7, Agriculture Handbook 674, March 2010** ,2010 *The Container Tree Nursery Manual: Seedling processing, storage, and outplanting* ,1990 **Container Tree Nursery Manual, Volume Seven: Seedling Processing, Storage, and Outplanting** , Presents information on the target plant concept addressing plant quality harvesting plant storage handling and shipping and outplanting **Thermal Processing of Packaged Foods** S. Donald Holdsworth,Ricardo Simpson,2015-11-30 This new edition discusses the physical and engineering aspects of the thermal processing of packaged foods and examines the methods which have been used to establish the time and temperature of processes suitable to achieve adequate sterilization or pasteurization of the packaged food The third edition is totally renewed and updated including new concepts and areas that are relevant for thermal food processing This edition is formed by 22 chapters arranged in five parts that maintain great parts of the first and second editions The First part includes five chapters analyzing different topics associated to heat transfer mechanism during canning process kinetic of microbial death sterilization criteria and safety aspect of thermal processing The second part entitled Thermal Food Process Evaluation Techniques includes six chapters and discusses the main process evaluation techniques The third part includes six chapters treating subjects related with pressure in containers simultaneous sterilization and thermal food processing equipment The fourth part includes four chapters including computational fluid dynamics and multi objective optimization The fifth part entitled Innovative Thermal Food Processing includes a chapter focused on two innovative processes used for food sterilization such high pressure with thermal sterilization and ohmic heating Thermal Processing of Pa ckaged Foods Third Edition is intended for a broad audience from undergraduate to post graduate students scientists engineers and professionals working for the food industry *Laboratory Manual and Principles of Chemistry for Beginners* George Mann Richardson,1894 **Petroleum Refining Design and Applications Handbook, Volume 5** A. Kayode Coker,2023-07-13

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Chemical Engineering: Chemical engineering design John Metcalfe Coulson, John Francis Richardson, 1993

Critical Care Manual of Clinical Procedures and Competencies Jane Mallett, John Albarran, Annette Richardson, 2013-05-15 This manual is aimed at all healthcare practitioners from novice to expert who care for the critically ill patient recognising that different disciplines contribute to the provision of effective care and that essential knowledge and skills are shared by all practitioners It provides evidence based guidelines on core critical care procedures and includes a comprehensive competency framework and specific competencies to enable practitioners to assess their abilities and expertise Each chapter provides a comprehensive overview beginning with basic principles and progressing to more complex ideas to support practitioners to develop their knowledge skills and competencies in critical care

Rules of Thumb for Chemical Engineers Stephen M Hall, 2011-03-31

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Encyclopedia of Environmental Analysis and Remediation, Volume 3 Robert A. Meyers, 1998-03-23. This encyclopedia is composed of an eight volume set that provides an overview of the field of environmental analysis. The contents are divided into major content areas including air pollution control, environmental law and environmental sampling. The volumes are organized alphabetically with each article signed by the author. The individual articles begin with a summary of the topic heading and then divide the text into subtopics indicated by boldface headings. The articles are written clearly; however, the authors assume a basic knowledge of chemistry and math on the part of the reader. For example, the acid mine drainage article refers to the Arrhenius equation but does not clarify this statement in the text. Each article contains graphs as well as pictures to illustrate points made in the text. The articles are long and provide a detailed explanation of each topic. The authors also provide a bibliography at the end of each article. Special features of the encyclopedia include a list of contributors, a table of conversion factors and a list of abbreviations and acronyms. The preface outlines the general contents of the encyclopedia. The preface also includes sections that suggest the target audience and recommended usages for the set. The final volume of the set contains an alphabetic index to the topics contained in the volumes.

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