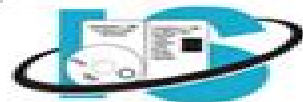


FOURTH EDITION

Pressure Vessel Design Manual

Dennis R. Moss
Michael Basic



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Pressure Vessel Design Manual Dennis R. Moss, Michael M. Basic, 2012-12-31 Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous and due to the risk of accident and fatality around their use, the design, manufacture, operation, and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. *Pressure Vessel Design Manual* is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible. Covers almost all problems that a working pressure vessel designer can expect to face with 50 step-by-step design procedures including a wealth of equations, explanations, and data. Internationally recognized, widely referenced, and trusted with 20 years of use in over 30 countries, making it an accepted industry standard guide. Now revised with up-to-date ASME, ASCE, and API regulatory code information and dual unit coverage for increased ease of international use.

Pressure Vessel Design Manual Dennis R. Moss, 2004-01-24 A pressure vessel is a container that holds a liquid, vapor, or gas at a different pressure other than atmospheric pressure at the same elevation. More specifically, in this instance, a pressure vessel is used to distill crude material taken from the ground, petroleum, etc., and output a finer quality product that will eventually become gas, plastics, etc. This book is an accumulation of design procedures, methods, techniques, formulations, and data for use in the design of pressure vessels, their respective parts, and equipment. The book has broad applications to chemical, civil, and petroleum engineers who construct, install, or operate process facilities and would also be an invaluable tool for those who inspect the manufacturing of pressure vessels or review designs. ASME standards and guidelines such as the method for determining the Minimum Design Metal Temperature are impenetrable and expensive. Avoid both problems with this expert guide. Visual aids walk the designer through the multifaceted stages of analysis and design. Includes the latest procedures to use as tools in solving design issues.

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Design Manual United States. Naval Facilities Engineering Command, 1972

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Pressure Vessel and Stacks Field Repair Manual Keith Escoe, 2011-04-08 Written from the practitioner's perspective this book is designed as a companion for engineers who are working in the field and faced with various problems related to pressure vessels and stacks such as modification retrofitting existing pressure vessels or stacks to either enhance process capability lift move or replace damaged equipment This makes the book a valuable guide for new engineers who need to develop a feel for these types of operations or more experienced engineers who wish to acquire more useful tips this handy manual provides the readers with rules of thumbs and tips to mitigate or remediate problems which can occur on a daily basis Because of their size complexity or hazardous contents pressure vessels and stacks require the highest level of expertise in determining their fitness for service after these operations Care must be taken in installation removal of the vessel to avoid damage to the shell Damage to the shell can result in catastrophic failure and possible injury to personnel The book will cover topics such as lifting and tending devices an overview of rigging equipment safety consideration inspection and repair tips methods to avoid dynamic resonance in pressure vessels and stacks wind loads and how to apply them for various applications and assessment guidelines for column internals tables and pressure vessel calculations and code formulas The examples in the book are actual field applications based on 40 years of experience from various parts of the world and are written from a view to enhance field operations In many parts of the world often in remote locations these methods were applied to repair pressure vessels and stacks These problems will still continue to happen so there is a need to know how to address them This book is to present assessments and techniques and methods for the repair of pressure vessels and stacks for field applications Also the book is to be a repair manual for easy use for mechanical engineers civil structural engineers plant operators maintenance engineers plant engineers and inspectors

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