



# Pressure Vessel Design Manual, Third Edition

By Dennis R. Moss

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**Pressure Vessel Design Manual, Third Edition** By Dennis R. Moss

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'/'crack' 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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### **Editorial Review**

#### **Review**

...wealth of data presented in the text and appendices....The indexing is thorough and accurate....large graphics and formulae enhance the usefulness....recommended for all academic and research libraries. (E-STREAMS: [www.e-streams.com](http://www.e-streams.com))

Current design techniques are introduced for external pressure conditions. ... This edition defines how to calculate MAP, MAWP, and test pressures, and describes how to find or revise a vessel's center of gravity. (Mechanical Engineering)

#### **About the Author**

Dennis Moss has more than 40 years' experience in the design, manufacture and inspection of pressure vessels. He is currently a Technical Director and Fellow for Fluor's Southern California office where he is the Section Supervisor of the Vessel Group.

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Easy-to-use reference providing a step-by-step approach that includes visual aids for easy understanding.

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