



Pressure Vessels: The ASME Code Simplified

By Robert Chuse, Bryce Carson

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This classic book is the engineer's choice for reliable information on how to fabricate, purchase, test, and inspect pressure vessels that meet ASME code specifications. The seventh edition clearly explains how to meet performance goals and current code requirements in the most cost effective manner possible. The 1991 Department of Transportation standards for cargo tanks - which can now be built and repaired only by ASME certified manufacturers - are reported and interpreted. Procedures for becoming ASME certified are also described. This clear, straightforward guide illustrates how the code applies to each vessel component, and includes tables for calculating allowable internal pressures. Procedures for complying with ASME standards are spelled out on safety procedures for design and maintenance; inspection and quality control; welding procedures and tests; operator qualifications; non-destructive testing; fabrication and installation; and requirements for pressure vessels used in nuclear power plants.

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Editorial Review

Review

“A useful addition to any ASME-code shop...This volume does what the title promises...The book is well-written and eminently readable.” (*Welding Design and Fabrication* 1993-04-01)

About the Author

Robert Chuse graduated from the Pennsylvania State Nautical School and served as an engineering officer in the Merchant Marine. He is currently a consultant for the construction and quality control of pressure valves and forensic engineer in the investigation specialist of nuclear power. Mr. Chuse was a qualified inspection specialist of nuclear power plant components as well as an Authorized Inspector of boilers and pressure vessels, with over forty years experience in quality assurance, quality control, and design relating to the ASME Boiler and pressure Vessel Code. He formerly served as consultant to the National Board of Boiler and Pressure Vessel Inspectors and was a member of the American Society of Mechanical Engineers nuclear survey teams. During his forty-three year career, Mr. Chuse has published more than forty-five articles on pressure vessel design, fabrication, and quality control in engineering and industrial journals. His articles and books are widely used by pressure vessel fabricators, designers, and users. He has given lectures on quality control, welding procedure qualification, and pressure vessel design and fabrication for the American Welding Society as well as for utility and manufacturing engineering departments. Mr. Chuse is a member of the American Society of Mechanical Engineers. Bryce E. Carson, Sr. holds a degree in Industrial Engineering Technology and is a licensed engineer in the State of New Jersey. He is currently Regional Manager Codes and Standards with the Hartford Steam Boiler Inspection and Insurance Company. He holds a National Board Inspectors Commission, and is a qualified Authorized Nuclear Inspector Supervisor, Authorized Nuclear Inspector, Authorized Inspector Supervisor, and Authorized Inspector. Mr. Carson has extensive experience in the field, acting as an Authorized Inspector of boilers and pressure vessels in the Philadelphia city region, the Lead Authorized Nuclear Inspector at a large nuclear construction site, and as the Assistant Regional Manager International for Engineering Services in the Republic of Korea. He lectures widely, has published articles on ASME quality control systems, and has created a technical handbook/technical seminar for tank truck manufacturers and repair firms. Mr. Carson is a member of the American Society of Quality Control. He is also a Committee Member-at-Large sitting on the ASME Admissions Committee.

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