

WRC Bulletin 256

January 1980

Review of Data Relevant to the Design of Tubular Joints for Use in Fixed Offshore Platforms

by E. C. Rodabaugh

The program leading to this report was funded by 13 organizations over a two-year period. The objective was to establish and/or validate design methods for tubular joints used in fixed offshore platforms. The report is divided into four self contained chapters (1) Static Strength (2) Stresses (3) Fatigue (4) Displacements, wherein detailed cross comparisons of various types of test data and design theories are reviewed.

Publication of this report was sponsored by the Subcommittee on Welded Tubular Structures of the Structural Steel Committee of the Welding Research Council.

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Analysis of the Ultrasonic Examinations of PVRC Weld Specimens 155, 202 and 203 by Standard and Two-Point Coincidence Methods

by R. A. Buchanan, prepared for publication by O. F. Hedden

This report describes two methods of analysis of ultrasonic examination data obtained in a 13-team round-robin examination of three intentionally flawed weldments. The objective of the examinations is to determine the accuracy of independently detecting, locating and sizing the weld flaws, using a fixed procedure.

Computer programs to facility comparison of flaw locations with the ultrasonic data, for each of the specimens and both of the methods, are appended to the report.

Publication of this report was sponsored by the Subcommittee on Nondestructive Examination of Materials for Pressure Components of Pressure Vessel Research Committee of the Welding Research Council.

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PVRC Monograph

Development of General Formulas for Bolted Flanges

Published by the Welding Research Council

Through the courtesy of G&W Taylor-Bonney Division, the 1949 Taylor Forge book, *Development of General Formulas for Bolted Flanges*, by E. O. Waters, D. B. Rossheim, D. B. Wesstrom and F. S. G. Williams has been reprinted.

The historical importance of this book is enhanced by the fact that the material is current and still forms the basis of the rules in the ASME Codes for the design of raised faced flanges. Additionally, the book continues to appear as a reference in technical papers published in the United States and abroad.

The price of this book is \$18.00. Please send payment with orders to the Welding Research Council, 345 East 47th St., Room 801, New York, NY 10017.