

Number 44

November 1958

Welding Research Council Bulletin Series

THE INFLUENCE OF RESIDUAL STRESS ON THE STRENGTH OF STRUCTURAL MEMBERS

by

Robert L. Ketter

The Bulletin Series of the Welding Research Council
contains reports of the Council not published in its
regular monthly Research Supplement.

Price: \$1.00 a copy

Welding Research Council *of the Engineering Foundation*

Sponsored by the American Welding Society, American Institute of Electrical Engineers,
American Institute of Mining and Metallurgical Engineers, American Society of Civil Engineers,
American Society of Mechanical Engineers, Society of Naval Architects and Marine Engineers,
American Society for Metals and American Society for Testing Materials

29 West Thirty-ninth Street

New York 18, N. Y.

INTENTIONALLY LEFT BLANK

WRC - The Welding Research Council brings together science and engineering specialists in developing the solutions to problems in welding and pressure vessel technology. They exchange knowledge, share perspectives, and execute R and D activities. As needed, the Council organizes and manages cooperative programs.

MPC – A Council of the WRC, the Materials Properties Council is dedicated to providing industry with the best technology and the best data that can be obtained on the properties of materials to help meet today's most advanced concepts in design and service, life assessment, fitness-for-service, and reliability and safety.

PVRC – A Council of the WRC, the goal of the Pressure Vessel Research Council is to encourage, promote and conduct research in the field of pressure vessels and related pressure equipment technologies, including evaluation of materials, design, fabrication, inspection and testing.

For more information, see www.forengineers.org

WRC Bulletins contain final reports from projects sponsored by the Welding Research Council, important papers presented before engineering societies and other reports of current interest.

No warranty of any kind expressed or implied, respecting of data, analyses, graphs or any other information provided in this publication is made by the Welding Research Council, and the use of any such information is at the user's sole risk.

All rights are reserved and no part of this publication may be reproduced, downloaded, disseminated, or otherwise transferred in any form or by any means, including photocopying, without the express written consent of WRC.

Copyright © 1958 The Welding Research Council.

All rights, including translations, are reserved by WRC.

Printed in the United States of America.

ISSN 0043-2326

Library of Congress Catalog Number: 85-647116

Welding Research Council
20600 Chagrin Blvd.
Suite 1200
Shaker Heights, OH 44122
www.forengineers.org

This is a preview. [Click here to purchase the full publication.](#)

INTENTIONALLY LEFT BLANK