

SYMPOSIUM ON PLASTICITY AND CREEP OF METALS

Presented at the
First Pacific Area National Meeting
AMERICAN SOCIETY FOR TESTING MATERIALS
San Francisco, Calif., October 10, 1949



Special Technical Publication No. 107

Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia 3, Pa.

SYMPOSIUM ON PLASTICITY AND CREEP OF METALS

Presented at the
First Pacific Area National Meeting
AMERICAN SOCIETY FOR TESTING MATERIALS
San Francisco, Calif., October 10, 1949



Reg. U. S. Pat. Off.

Special Technical Publication No. 107

Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia 3, Pa.

NOTE.—The Society is not responsible, as a body, for the statements
and opinions as advanced in this publication.

COPYRIGHT, 1950
BY THE
AMERICAN SOCIETY FOR TESTING MATERIALS

CONTENTS

	PAGE
Introduction—John E. Dorn.....	1
The Experimental Exploration of Plastic Flow in Sheet Metals—L. R. Jackson and W. T. Lankford.....	3
Discussion.....	13
Forming Parameters and Criteria for Design and Production—William Schroeder...	18
The Use of Creep Data in Design—Howard C. Cross and L. R. Jackson.....	37
Discussion.....	48
Super Creep-Resistant Alloys—J. W. Freeman, D. N. Frey, E. E. Reynolds, and A. E. White.....	50

FOREWORD

The papers and discussions in this Symposium on Plasticity and Creep of Metals were presented at the First Pacific Area National Meeting of the American Society for Testing Materials held in San Francisco, Calif., October 10-14, 1949.

The Symposium was developed for the Technical Program Committee of the General Committee on Arrangements and presided over by John E. Dorn of the University of California, Berkeley, Calif.

President James G. Morrow of The Steel Company of Canada, Ltd., Hamilton, Ont., Canada was Honorary Chairman.

