

TABLE OF CONTENTS

	PAGE
FOREWORD.....	1
1. RECOMMENDED PRACTICE FOR SPOT AND SEAM WELDING (Low-Carbon, Stainless and Hardenable Steels, Nickel, Monel and Inconel).....	2
101. Material.....	2
102. Electrode Diameter and Shape.....	2
103. Net Electrode, Weld and Temper Force.....	2
104. Time.....	3
105. Minimum Shear and Tensile Strength.....	3
106. Welding Current.....	4
107. Diameter of Fused Zone.....	4
108. Minimum Weld Spacing.....	4
109. Minimum Contacting Overlap.....	4
2. RECOMMENDED PRACTICE FOR PROJECTION WELDING (Low-Carbon and Stainless Steels).....	14
201. Material.....	14
202. Electrode Diameter and Shape.....	14
203. Net Electrode Force.....	15
204. Time.....	15
205. Minimum Shear Strength.....	15
206. Welding Current.....	15
207. Diameter of Fused Zone.....	15
208. Minimum Weld Spacing.....	16
209. Minimum Contacting Overlap.....	16
210. Multiple Projection Welds.....	16
211. Projection Height and Diameter.....	16
212. Punch and Die Design.....	16
3. RECOMMENDED PRACTICE FOR FLASH-BUTT WELDING (Low and Medium Forging Strength Steels).....	21
301. Introduction.....	21
302. General.....	21
303. Definitions.....	21
304. Discussion of Variables.....	25
305. Classification of Steels for Flash-Butt Welding.....	27
306. Flash-Butt Welding Schedule.....	28
307. Surface Finish.....	29
4. STANDARD METHODS FOR TESTING RESISTANCE WELDS.....	32
401. General.....	32
402. Types of Test.....	32
403. Preparation for Testing.....	33
404. Test Methods.....	33
405. Evaluation of Weld Consistency.....	42
406. Control of Weld Quality by Statistical Methods.....	43
407. Form for Resistance Welding Data Sheet.....	44