

CONTENTS

PREFACE TO THIS EDITION.....	ii
INTRODUCTION.....	iii
STAINLESS STEEL ALLOY INDEX.....	v
1. OVERVIEW OF STAINLESS STEELS.....	1
General Description of Classes.....	1
Melting and Refining.....	2
Fabrication and Cleaning.....	3
Heat Treatment.....	3
Cleaning and Maintenance.....	4
Selection.....	4
Product Classification.....	6
Inspection.....	7
Limitations of Inspection, Testing and Certification.....	7
Packaging, Marking and Loading.....	7
Chemical Ranges and Limits, Sampling and Analytical Procedures.....	11
Quality Descriptions and Special Requirements.....	11
2. CHEMICAL COMPOSITIONS.....	17
Austenitic Stainless Steels.....	17
Duplex (Austenitic-Ferritic) Stainless Steels.....	21
Ferritic Stainless Steels.....	22
Martensitic Stainless Steels.....	23
Precipitation Hardening Stainless Steels.....	25
3. DESCRIPTIONS OF ALLOYS, THEIR PROPERTIES AND APPLICATIONS.....	27
4. SEMIFINISHED PRODUCTS—BLOOMS, BILLETS, SLABS AND RODS.....	249
5. BAR SIZE SHAPES, STRUCTURAL SHAPES, HOT EXTRUSIONS.....	251
6. BARS—HOT FINISHED AND COLD FINISHED.....	255
7. PLATES.....	261
8. SHEETS—HOT ROLLED AND COLD ROLLED.....	265
9. STRIP AND FOIL—COLD ROLLED.....	269
10. WIRE.....	273
11. TUBULAR PRODUCTS.....	281
APPENDIX I—TYPICAL APPLICATIONS.....	293
APPENDIX II A—ASTM STANDARDS AND SPECIFICATIONS.....	299
APPENDIX II B—SAE - AMS (AEROSPACE MATERIAL SPECIFICATIONS).....	307
APPENDIX III—STAINLESS STEEL TRADE NAMES AND THEIR ORIGINS.....	313
APPENDIX IV—NATIONAL DESIGNATIONS FOR SIMILAR STAINLESS STEELS— A GUIDE TO STEELS WITH SIMILAR CHEMICAL COMPOSITIONS.....	315
APPENDIX V—THE NAMING AND NUMBERING OF STAINLESS STEELS.....	321
APPENDIX VI—DIRECTORY OF SPECIFICATION SOURCES.....	327
INDEX.....	329