

# Contents

INTRODUCTION	1
CHAPTER 1 PRINCIPLES OF ANODIZING	3
2 APPLICATIONS OF ANODIZED ALUMINIUM	6
3 FACTORS INFLUENCING THE CHOICE OF GRADE OF ALUMINIUM FOR ANODIZING	11
4 FACTORS INFLUENCING THE CHOICE OF ANODIZING PROCESS	17
5 DESIGNING FOR ANODIZING	23
6 ANODIZING EQUIPMENT	29
7 JIGGING (RACKING) METHODS FOR ANODIZING	42
8 CHEMICAL TREATMENT PROCESSES BEFORE ANODIZING	49
9 ANODIZING PROCESSES	56
10 COLOURING THE ANODIC COATING	76
11 SEALING THE ANODIC COATING	88
12 STRIPPING ANODIC COATINGS AND DYES	97
13 TESTING ANODIZED ALUMINIUM	100
14 THE PROPERTIES OF ANODIZED ALUMINIUM	124
15 MAINTENANCE OF ANODIZED ALUMINIUM	141
16 EFFLUENT TREATMENT FOR ANODIZING PLANTS	143
APPENDIX I APPROXIMATE EQUIVALENT CONCENTRATIONS OF SULPHURIC ACID IN DIFFERENT UNITS	150

x **Contents**

II	BATH ANALYSIS METHODS	152
III	SELECTED BOOKS—INFORMATION SOURCES	161
IV	SPECIFICATIONS APPLICABLE TO ANODIC OXIDE COATINGS ON ALUMINIUM	163
	INDEX	167