

CONTENTS

Preface	13
Acknowledgments	15
1 Units and Dimensions	17
2 Density and Specific Gravity	51
3 Properties of Fluids, Hydrostatics and Dynamics	69
4 Viscosity	108
5 Solid Rheology and Texture	137
6 Surface Properties	167
7 Introduction to Thermodynamic and Thermal Properties	200
8 Sensible and Latent Changes	220
9 Heat Transfer Mechanisms	246
10 Unsteady-state Heat Transfer	292
11 Properties of Gases and Vapours	324
12 Electrical Properties	366
13 Diffusion and Mass Transfer	413
Bibliography and references	446
Index	459