CONTENTS

Preface ix
Introduction 1
1 Surfaces: An Introduction 5
2 The Structure of Surfaces 39
3 Thermodynamics of Surfaces 283
4 Dynamics at Surfaces 335
5 Electrical Properties of Surfaces 389
6 Surface Chemical Bond 437
7 Mechanical Properties of Surfaces 481
8 Polymer Surfaces and Biointerfaces 525
9 Catalysis by Surfaces 559
Index 763