

Table of contents

Preface

- | | | |
|----|---|-----|
| 1 | Hydrodynamic theory of plasmon-polaritons on plane surfaces | 1 |
| | <i>A. D. Boardman</i> | |
| 2 | Quantum-mechanical calculations of the surface plasmon dispersion for metals using the random phase approximation | 77 |
| | <i>B. B. Dasgupta and D. E. Beck</i> | |
| 3 | The interaction of photons with surface plasmons | 119 |
| | <i>R. H. Ritchie, J. C. Ashley and T. L. Ferrell</i> | |
| 4 | Optical excitation of surface plasmon-polaritons in layered media | 143 |
| | <i>G. J. Kovacs</i> | |
| 5 | Two prism surface electromagnetic wave spectroscopy | 201 |
| | <i>R. W. Alexander, Jr, R. J. Bell and C. A. Ward.</i> | |
| 6 | Surface phonon-polaritons | 219 |
| | <i>G. Borstel and H. J. Falge</i> | |
| 7 | Polaritons at the interface between two dielectric media | 249 |
| | <i>P. Halevi</i> | |
| 8 | Electromagnetic surface modes in small metallic particles | 305 |
| | <i>A. A. Lushnikov, V. V. Maksimenko and A. J. Simonov</i> | |
| 9 | Spherical and cylindrical surface polaritons in solids | 345 |
| | <i>R. Ruppin</i> | |
| 10 | Mathematical properties of surface plasmon modes and van der Waals interactions in some geometries | 399 |
| | <i>A. Ronveaux</i> | |
| 11 | Surface waves and rainbow effects in the optical glory | 417 |
| | <i>V. Khare</i> | |

12	Surface waves in gas-discharge plasmas	465
	<i>A. Shivarova and I. Zhelyazkov</i>	
13	The lateral wave	521
	<i>T. Tamir</i>	
14	Narrow beam excitation of electromagnetic modes in prism configurations	549
	<i>W. P. Chen and E. Burstein</i>	
15	Surface magnetoplasmons on semiconductors	575
	<i>R. F. Wallis</i>	
16	Surface magnon-polaritons	633
	<i>E. F. Sarmento and D. R. Tilley</i>	
17	General study of grating anomalies from electromagnetic surface modes	661
	<i>D. Maystre</i>	
18	Non-linear optics of surface polaritons	725
	<i>M. Fukui and G. I. Stegeman</i>	
	Index	773