



# CONTENTS

## PROBLEMS

§ 1. Geometrical optics	3
§ 2. Photometry	33
§ 3. Interference and diffraction of light	38
§ 4. Polarisation of light. Fresnel's formulae	63
§ 5. Crystal optics	70
§ 6. Velocity of light. Optics of moving media and sources. Some problems of the theory of relativity	83
§ 7. Radiation pressure	92
§ 8. Molecular optics	95

## ANSWERS AND SOLUTIONS

§ 1. Geometrical optics	117
§ 2. Photometry	156
§ 3. Interference and diffraction of light	161
§ 4. Polarisation of light. Fresnel's formulae	196
§ 5. Crystal optics	209
§ 6. Velocity of light. Optics of moving media and sources. Some problems of the theory of relativity	233
§ 7. Radiation pressure	251
§ 8. Molecular optics	255