

CONTENTS

	Page
CHAPTER I PROJECTION AND WHAT IT ENTAILS	1
CHAPTER II OPTICAL PRINCIPLES	11
CHAPTER III THE PROJECTOR	17
CHAPTER IV GENERAL PRINCIPLES OF ELECTRICITY	37
CHAPTER V ALTERNATING CURRENT CALCULATIONS	53
CHAPTER VI HARNESSING ELECTRICAL ENERGY	61
CHAPTER VII THE ARC LAMP	67
CHAPTER VIII TUNGSTEN AND DISCHARGE LAMPS	89
CHAPTER IX SOUND AND ACOUSTICS	99
CHAPTER X THE SOUND HEAD AND ITS DRIVE	107
CHAPTER XI PRINCIPLES OF AMPLIFICATION	121
CHAPTER XII AMPLIFIERS AND SPEAKERS	137
CHAPTER XIII THE PRINCIPLES OF STEREOPHONY	157

CONTENTS

	Page
CHAPTER XIV	
PICTURE AND SOUND IN THE AUDITORIUM	165
CHAPTER XV	
THE ARC SUPPLY	175
CHAPTER XVI	
ELECTRIC APPARATUS AND WIRING	191
CHAPTER XVII	
OIL AND GAS ENGINES	199
CHAPTER XVIII	
PROJECTION ROOM PRACTICE	205
CHAPTER XIX	
TRACING FAULTS	219
CHAPTER XX	
HEATING AND VENTILATING PLANT	231
CHAPTER XXI	
EQUIPPING A NEW KINEMA	237
CHAPTER XXII	
COLOUR FILMS	245
CHAPTER XXIII	
MOBILE PROJECTION	251
CHAPTER XXIV	
SUB-STANDARD FILMS AND PROJECTION	257
CHAPTER XXV	
PRINCIPLES OF TELEVISION	265
CHAPTER XXVI	
EXPERIMENTAL DEVELOPMENTS	279
APPENDIX I	
STAGE LIGHTING by F. G. H. Macrae (<i>formerly Chief Engineer, Theatre Royal, Drury Lane</i>)	287

CONTENTS

xiv

	Page
APPENDICES Ia	
FILM DATA. Trade Associations—Abstracts of Regulations affecting the Projectionist—Abstract of Regulations for the Electrical Equipment of Buildings—Introduction with Technical Literature—Technical Tables—Electrical Symbols—Electrical and Scientific Abbreviations—First Aid	299-326
INDEX	327