CONTENTS	
FOREWORD	PAGE
PREFACE	vii
PART I. SCIENTIFIC BASIS	
CHAPTER I	
VISION AND COLOUR	I
The Visible Spectrum—Colour Vision—The Additive Method of Mixing Colours—The Subtractive Method of Mixing Colours—Reflection, Absorption, and Transmission of Colour—Achromatic Colours, Tints, and Shades—Hue, Brightness, and Saturation—Reaction of Colours on each other—After-Images—Simultaneous Contrast	
CHAPTER 2	
CONTROL AND MEASUREMENT OF ILLUMINATION	13
Output—Measurement of Illumination—Illumination Calculations— Spotlights and the Inverse Square Law—Reflector and Lens Efficiency PART II. THE ADAPTATION AND CONTROL OF LIGHT	
CHAPTER 3	
LIGHT SOURCES AND COLOUR FILTERS	23
Colour Filters—Tungsten Filament Vacuum Lamps—General Service Gas-filled Lamps—Gas-filled Projector Lamps—Class A1—Class B1—Class B2—Class E—Class F—Cinema Studio Lamps—Electric Discharge and Fluorescent Lamps—High Pressure Mercury Vapour Lamps—Black Glass Ultra-violet Lamps and U.V. Filters—Carbon Arc Lamps—Spectral Composition of Electric Light—Theatre Gelatines and Filters	J
CHAPTER 4	
STAGE LIGHTING APPARATUS	38
Footlights (Floats)—Footlight Spotlights—Proscenium Lengths—Battens—Revolving Battens—Spot Battens—Flood Battens—Acting Area Lanterns—Groundrows—Lengths and Strips—Wing Floods—Projector Lamp Spotlights—Perch Spotlights and Floodlights—Spot and Flood Booms—Spot and Flood Towers—Arc Spotlights—Effects Projectors and Attachments—Balgany Front Spotlights—Floor Stands	

CONTENTS

CHAPTER 5	PAGE
DIMMERS AND LIGHTING CONTROL EQUIPMENT	64
Purchase of suitable Control Apparatus—Minimum Number of Dimmers—Lay-out of Dimmer Equipment—Types of Dimmers—Slider Type Dimmers—Radial Lever Dimmers—Rotary Type Dimmers—Auto-transformer Dimmers—Reactor Dimmers—Liquid Dimmers—Portable and Slider Type Dimmer Switchboards—Dead Front Dimmer Switchboards—Pre-set Dimmer Switchboards—Remote Control Dimmer Switchboards—Auto-selective Control System—Delicolour Control System—Other Special Systems	
CHAPTER 6	
STAGE LAY-OUT AND DESIGN	89
Footlight Projection—Apron Stages—Wing Space—Back Stage—Headroom—Fire Safety Curtain—Overhead Suspension Equipment—Cyclorama Backgrounds—Rolling and Revolving Stages—Lighting Bridges—Stage Terms	
CHAPTER 7	
PLANNING THE STAGE LIGHTING FOR PROFESSIONAL, PRIVATE, AND CINEMA STAGES .	101
Types of Stages—Professional Theatres—Variety or Vaudeville Theatres—Repertory Theatres—Concert and Public Halls—Private Theatres—Cinema Stages	
PART III. THE ART OF STAGE	
LIGHTING	
0	
CHAPTER 8	
DIRECTIONAL LIGHTING, SHADOW, AND COLOUR FOR FACE AND FIGURE	117
Visual Perception—Direction of Light—Lighting Composition—Dominant Lighting—Secondary Lighting—Rim Lighting—Fill-in Lighting—Shadows—Background Lighting—Colour of the Light	
CHAPTER 9	
COLOURED LIGHT, ITS HARMONY, CONTRASTS, AND DISCORD	132
Primary Colours in Lighting—Complementary Colours—Colour Harmony—Colour Contrasts—Discords—Tone and its Effect upon Colour Schemes—Colour Compositions	

Contents

CHAPTER TO	PAGE
BUILDING UP A LIGHTING COMPOSITION	139
The Lighting of an Artist—Lighting of the Vaudeville and Concert Artist—Lighting of the Artist in Theatre Productions—Lighting of the Setting—New Art of Luminous Colour	
CHAPTER II	
THE CHOICE AND EFFECT OF COLOURED LIGHT ON COLOURED COSTUMES AND SETTINGS .	152
Appearance of Colours—Choice of Fabrics—Stunt and Colour Changing Effects on Costumes and Designs—Changing the Appearance of Colours—Bathing Belle to Nude Effect—The White Man to Negro Effect—Changes in the Appearance of Scenery	
PART IV. PRACTICAL LIGHTING FOR	
STAGE PRODUCTIONS	
CHAPTER 12	
SUGGESTIONS FOR LIGHTING A PLAY	161
General Stage Lighting—Arranging the Spot Batten—Colour Filters for Batten Spotlights—Three-colour Basis for Spotlight Filters—Varying the Hue of Spotlighting—Effect of Light on Make-up—Variations in Coloured Light from Standard Filters—Footlighting for Interior and Exterior Settings—Overhead Battens for Interior and Exterior Settings—Auxiliary Equipment for a Play Setting—Floodlights—Fire Effect—Circle and Balcony Spotlights—Realism of Lighting	
· · · · · · · · · · · · · · · · · · ·	
CHAPTER 13	
SUGGESTIONS FOR LIGHTING OF OPERA, MUSICAL SHOWS, REVUE, AND BALLET	170
Type of Setting—Lighting of Grand Opera—Comic and Light Opera—Musical Comedy Lighting—Revue Lighting—Lighting Cue Sheets—Ballet	
CHAPTER	
CHAPTER 14 SUCCESTIONS FOR CINEMA CURTAIN FEFECTS	-06
SUGGESTIONS FOR CINEMA CURTAIN EFFECTS. Lighting on Cinema Curtains—Emotional Effect of Colour—Selection	100
of Colours—Lighting the Curtains—Curtain Materials	
INDEX	191
	xi