
Contents

	PAGE
Preface	v

CHAPTER

I. INTRODUCTION	1
Is color photography worth while? Is it expensive? Cost of transparencies and prints. Is it difficult? Use of exposure meter and exposure guides. Equipment needed for color. Experience needed.	
II. COLOR AND COLOR PROCESSES.....	9
What is color? The color spectrum. Qualities of color. Primary and complementary colors. Theory of vision. Properties of light. Color processes. Additive process. Subtractive process. Comparison of additive and subtractive processes.	
III. FILMS AND FILTERS.....	26
Film construction. The photographic process. H & D curve. Tone range. Film latitude. Light-intensity range. Density and contrast. Purpose of development. Effect of development on contrast. Contrast definition. Gamma. Calculation of gamma. Film types. Picture-making process. Color photographic methods. Filters. Filter factors. Exposure factor. Neutral density filters. Films for color separation. Correct exposure for color. Latitude, density range for color.	
IV. MAKING TRANSPARENCIES	54
Films available. General conditions in exposing color film. Lighting contrast for color film. Exposure. Backgrounds. Photoelectric exposure meters. Outdoor subjects. Synchronized flash. Exposure index tables. Color photographs by artificial light. Use of exposure meter. Clothing and background color. Portraits. Flood lamps to supplement daylight. Filters for color films. Color temperature. Light sources and filters for use with daylight color film. Color compensating filters. Black-and-white prints from color transparencies. Voltage control in color. Exposures for close-ups. Color film. Color-film processing. Color-processing solutions. Reducing solutions for Ansco color transparencies. Capacity of solutions. Color film cost per exposure. Defects in transparencies. Kodacolor film.	

CHAPTER	PAGE
V. SEPARATION NEGATIVES	139
Equipment for color separations. Films or plates for separations. Gray scale. Lighting for separations. Identification of separation negatives. Development of separation negatives. Troubles in processing separation negatives. Requirements for separation negatives. Separations direct from subject. Filter factors for separation negatives. Densitometer. Densitometry. Effect of separation filters. Films for separations. One-shot cameras. Out-of-register negatives. Separation negatives from transparencies. Separations in a copying camera. How to determine correct exposures. Masking. Unsharp masks. How masks improve color.	
VI. IMBIBITION COLOR PRINTS.....	253
Necessary equipment. Wash-off process. Orthotone process. Dye Transfer process. Dye Transfer vs. Wash-off Relief. Tanning developer. Contrast control in Dye Transfer process. Corrective measures in wash-off. Wash-off formulas. Judging correct exposure in wash-off. Use of densitometer to determine exposure. Tanning developer formulas. Dyes for wash-off printing. Dye mordanting.	
VII. CARBRO PIGMENT PRINTING.....	304
Monochrome carbro. Trichrome carbro. McGraw Colorgraph carbro method. Making bromides for carbro. Stripping the pigment. Forming the pigment images. Transfer of pigment. Final transfer. Spotting. Carbro formulas. Use of combiner. Duplicate prints. Carbro and wash-off combined. Calibration of enlarger. Cost of making prints.	
VIII. ANSCO PRINTON; RECENT DEVELOPMENTS.....	339
Printon characteristics. How to use Printon. Filters required. Color compensation. Recent improvements in Printon. Use of densitometer, exposure meter, or photometer. Comparison of Printon negative with bromide negative. Ektacolor film. S-T Tripac separation films.	
Index	349