

Contents

Foreword	ix
Introduction	xi
1 EQUIPMENT AND MATERIALS	1
Choice of camera	1
Essential camera accessories	7
Second-hand equipment	9
Discounts	9
Insurance	9
Film emulsions	10
Film loading	13
Grain characteristics of film emulsions	14
Filters for black and white film	17
2 EXPOSURE	21
Factors affecting exposure	21
Outside the camera system	24
Lens to film	24
Emulsion and image	25
Exposure problems	31
Exposure aims summed up	35
3 TAKING THE PHOTOGRAPH	37
Techniques for flat copy work	37
Studio lighting	38
Available room lighting	40
Daylight outdoors	40
Mounts and surrounds	40
Lighting for 3D	42
Qualities of light sources	43
Technique of lighting	44
Shadowless photographs	47
Photographing large objects	48

Location photography indoors	50
Location photography outdoors	53
Flash photography	54
Photographing people	56
Floods, spots and reflectors	59
4 FILM PROCESSING	61
Developing tank	61
Ancillaries	61
Preparing the chemicals	64
Loading the developing tank	66
Development technique	68
Processing your film	70
Tracing troubles	73
Large tank processing	76
5 PRINTING AND ENLARGING	78
Darkroom layout	78
Enlargers	81
Printing paper	85
Chemicals	89
Rapid systems	90
Evaluating density and contrast	91
Preparations for printing	91
Contact printing	92
Enlarging	94
Black lettering	103
Photo-headliners	105
Making monochrome slides	107
6 LINE AND LITH	109
Colour sensitivity	109
Developing line film	113
Developing lith film	114
Exposure with high contrast film	115
Contrast from normal-tone negatives	121
Printing line negatives	129
7 COLOUR	130
Colour temperature	131
Sheet colour film	133
Colour and exposure time	133
Colour film processing	134
Exposing colour film	135
Colour effect filtering	136
Colour printing	138

8 IMAGE DISTORTION	139
Reflection and refraction	139
Lighting for glass containers	143
Posterization	168
Bas-relief	171
Grain effects	173
Reticulation	173
Photograms	175
Contour film-direct solarization	177
9 PHOTOGRAPHY FOR SILK-SCREEN	178
Making photographic positives	179
Dot for dot reproduction	179
Exposing lith for tone subjects	182
Working from an existing negative	182
Characteristics of Autoscreen	183
Line and half-tone combinations	185
Printing on to TP paper	186
Photo-stencils	187
10 PHOTOGRAPHY FOR CERAMICS	190
Coating	190
Exposing	191
Pigmentation	194
Faults in image density	194
11 AFTERTREATMENT	196
Print spotting	196
Knifing	197
Retouching with process white	197
Removing density chemically	197
Prints for reproduction	198
Rescue operations	198
Marginal exposure or development errors	198
APPENDIX	205
INDEXED GLOSSARY	210