CONTENTS

	ACKNOWLEDGMENTS	vii
CHAPTER 1	INTRODUCTION What is Communication? An Intention to Communicate Visual Communication Good Illustrations Using Words Using Pictures	1 1 2 2 2 3 4 4
CHAPTER 2	PLAN THE FIGURE When to Use a Figure What to Illustrate How Much Information Find Out About the Viewer Know the Media Requirements Plan Integral Figures Plan for Sufficient Time and Money Plan to Communicate Visually An Exercise in Planning	7 7 8 8 9 9 9 10 10
CHAPTER 3	DRAWINGS AND DIAGRAMS Line or Continuous Tone Drawing Communicating With the Artist	15 20 21
CHAPTER 4	PHOTOGRAPHS Photographic Reproduction Tracings Photographic Figures Photomicrographs Gels Video Images	23 23 25 28 30 37 40
CHAPTER 5	CHARTS AND TABLES Charts Tables	43 43 47

x CONTENTS

CHAPTER 6	MOLECULAR GRAPHICS Genetic Sequences Restriction Maps Molecular Models	57 57 65 68
CHAPTER 7	KINDS OF GRAPHS The Pie Graph The Bar Graph The Histogram The Line Graph The Scattergram Overlapping Graph Forms	75 76 77 79 80 80
CHAPTER 8	GRAPH DESIGN Axis Lines Labels Design Symbols and Lines Texture and Contrast Arrows and Brackets	83 84 95 102 104 105
CHAPTER 9	THE JOURNAL FIGURE Journal Instructions Reduction Format Labels Consistency Final Preparation The Printing Process	109 110 111 114 118 120 120
CHAPTER 10	SLIDES Slide Format Labels for Slides Color Slides From Books and Journals	123 125 127 130 131
CHAPTER 11	POSTERS Plan the Poster Poster Text Figures Poster Layout Poster Production Poster Purpose	135 136 141 145 147 149 153
CHAPTER 12	USING AN ILLUSTRATOR Communicate With the Illustrator The Illustrator and the Computer The Illustrator as a Resource	155 157 158 159

CHAPTER 13	USING A COMPUTER Letters, Fonts, and Styles Use Computer Options to Simplify and Organize Computer Drawings and Diagrams Bit Mapped vs Vector-Based Graphics Computer Generated Graphs Computer Print Out	161 163 164 165 168 169 171
CHAPTER 14	DRAWING BY HAND Trim, Mount, and Label Tracings Trim, Mount, and Label Gels Draw and Label Graphs Photocopy Machine for Corrections and Changes	173 174 181 182 187
CHAPTER 15	CONCLUSION You Should Learn to Communicate You Can Learn	191 193 193
	BIBLIOGRAPHY	197
:	SOURCE OF ILLUSTRATIONS	199
	INDEX	205