



## Table of Contents

Introduction .....	4
Color Basics .....	5
Light.....	5
Objects .....	7
Detectors .....	8
Human (Visual) Observers .....	8
Color Measuring Instruments.....	8
Visual vs. Instrumental Color Assessment .....	9
Light, Object, and Observer Interactions.....	9
Color Order Systems.....	9
Munsell System .....	10
CIELAB System.....	11
Colorants.....	15
Dyes .....	15
Pigments .....	16
Textiles.....	16
Fibers .....	16
Yarns .....	17
Fabrics.....	17
Preparation for Dyeing or Printing .....	17
Coloration.....	17
Batch Dyeing.....	18
Continuous Dyeing .....	19
Pigmenting/Printing .....	19
Instrumentation .....	19

Light Booths (Visual Evaluation) .....	19
Equipment.....	19
Settings.....	20
Procedures .....	20
Spectrophotometers (Instrumental Evaluation) .....	21
Equipment.....	21
Fastness Testing.....	21
Special Topics.....	22
Metamerism.....	22
Color Constancy .....	23
Fluorescence.....	24
Fiber Blends .....	25
Supplier accreditation.....	26
Selected Bibliography .....	26