Introduction to basic sketching & rendering techniques

Synopsis:

This book is intended as an introductory textbook for students and as a reference book for designers working in the field of product designing and engineering product design and development.

As such, it gives a description of the basic techniques for sketching and rendering of a product in mixed-media using pencil, pen, markers, and pastels which are versatile and faster to work with compared to water/poster colour and air brush. Topics such as Materials, Basic of Drawing, Shading, Colouring, Sketching, and Rendering with original samples of drawing are illustrated in order to show the step by step techniques of sketching and rendering.

The basic aspects of perspectives, shading, and various types of colour surfaces, apart from using the right materials are fundamental and important applications in creating good drawings. This book aims at providing the reader with fast sketching and rendering methods ranging from simple basic geometrical shapes to consumer products.

Introduction to basic sketching & rendering techniques
Table Of Content:
Preface
CHAPTER 1 MATERIALS
Pencils
Colour Pencils
Pens
Markers
Buying and Using Markers
Pastels
Papers and Pads
Paints and Inks
Miscellaneous Items
CHAPTER 2 BASIC OF DRAWING
Skills Needed by an Industrial Designer
Perspective
Convergence
Foreshortening
Diminution
One-point Perspective System
Two-point Perspective System
Three–point Perspective System

Freehand Perspective
Drawing Ellipses
Ellipses in Cylinders
Choosing an Angle
Isometric View and Oblique View
CHAPTER 3 SHADING
Shading
Highlights
Shading Basic Geometric Shapes
Shadows
Environmental and Surface Reflections
Exaggerating Tones
CHAPTER 4 COLOURING
Types of Surface
Chrome Surface
Glossy Surface
Matt Surface
Transparent Surface
Reflections on Curved Surfaces
Reflections on Spherical Surfaces
CHAPTER 5 SKETCHING
Thumbnail Sketches

Concept Sketches

Detail	امطا	Ska	tchee
Detail	ıcu	DVC	wics

Good Techniques in Sketching

Ways of Generating Ideas When Doing Sketches

CHAPTER 6 RENDERING

Introduction

Rendering Basic Surfaces (Chrome, Glossy, Matt, and Transparent)

Chrome Surface Rendering

Glossy Surface Rendering

Matt Surface Rendering

Transparent Surface Rendering

Rendering Products

Chrome Watch Rendering

Vacuum Cleaner Rendering

Concept Car (SUV) Rendering

'Grip' Digital Watch Rendering

'Music Capsule' MP3 Player Rendering

Camera (Metallic Casing) Rendering

Concept Motorcycle Rendering

Concept Motorcycle Rendering (Perspective View)

Concept Car Rendering (Side View)

'Mantis' Eyewear Shades Rendering

Projector (Coloured Paper Rendering)

Baseball Cap Rendering (with Textures)

Sports Shoe Rendering (with Textures)

Kurecolor Marker Rendering

Important Stages in Rendering

CHAPTER 7 CONCLUSION

REFERENCES

INDEX