

PERSPECTIVE

A Guide for Artists, Architects and Designers

GWEN WHITE

CONTENTS



PARALLEL PERSPECTIVE 4

The Ground Plane	4
The Picture Plane	5
The Picture Plane and the Ground Plane	6
Distance of Spectator from Picture Plane	6
Distance of Picture Plane from Object	7
The Centre of Vision and the Eye	7
Representing the Eye by Point E.	8
Vanishing Points	9
Points touching the Picture Plane, Examples, 1, 2, 3.	9
Points beyond the Picture Plane, Examples, 4, 5, 6, 7.	10
Heights touching the Picture Plane, Examples, 8, 9.	10
Heights beyond the Picture Plane, Examples, 10, 11, 12, 13, 14.	11
Drawing a Table and Chair from Plans and Elevations, Example, 15.	12
Designing a Tower on a Square Plan, Example, 16.	13
A Stage Set, Example, 17.	17
Laying out a Garden, Example, 18.	19
A Few Chairs	
An Unusual Roof, Example, 19.	21
Curves, Examples, 20, 21, 22.	22
A Spiral Staircase, Example, 23.	23
Reflections in Water	25

ANGULAR PERSPECTIVE 26

Examples, 24, 25, 26, 27, 28.	27
Examples, 29, 30.	28
A Geometric Proof for a Measuring Point, Examples, 31, 32.	29
A Writing Desk from Plan and Elevations, Example, 33.	30
An Arched Building, Example, 34.	31
A House, Example, 35.	35
A Boat, Example, 36.	37
A Film-Set, Example, 37.	39
Nut and Bolt, Example, 38.	41
Stand for a Race Course, Example, 39.	42
A Plummer Block, Example, 40.	

OBLIQUE PERSPECTIVE 43

An Ascending Plane, Example, 41.	46
A Descending Plane, Example, 42.	
A Square in a Descending Plane, Example, 43.	47
A Cube in an Ascending Plane, Example, 44.	48
A Dart, Example, 45.	49
Two Views of a Scene drawn from Plans and Elevations, Example, 46.	51
To make a Lion fly, Example, 47.	53
Crystal Formations, Examples, 48, 49.	54

SHADOWS 55

Sun in the Picture Plane	55
Sun in front of Spectator	56
Sun behind the Spectator	57
Shadows on Inclined Planes	58
A Portion of a Town, Example, 50.	59
A Dormer Window, Example, 51.	61
Shadow of Chimney on Sloping Roof, Example, 52.	63
The Shadow of a Slanting Pole, Example, 53.	65
A Row of Arches, Example, 54.	67
Shadow on a Curved Surface, Example, 55.	68
Artificial Light	69
A Simple Interior, Example, 56.	69
A Doorway lit by Artificial Light, Example, 57.	70

THE CONE OF RAYS 71

View with Tipped Picture Plane, Example, 58.	72
----------------------------------------------	----

REFLECTIONS 73

By Orthographic Projection, Example, 59.	73
By Angular Perspective, Example, 60.	74
A Tipped Object in a Vertical Mirror, Example, 61.	75
A Square reflected in a Tipped Mirror, Example, 62.	77
Reflection of a Pyramid, Example, 63.	78
Reflection in a Mirror tipped Forwards, Example, 64.	79
Reflection in a Mirror tipped Backwards, Example, 65.	80



NOTE

The illustrations and text on the following pages are arranged in a sequence that should be studied in columns and not across the page.

Pages marked 'a lift-up page' have a Perspective drawing on one side and the construction lines on the other. The two can be seen simultaneously by holding the page towards the light.

In this edition the measurements are given in feet and inches as well as in centimetres. Choose which you prefer but use the same throughout.

This book uses the approximation that one foot is equivalent to thirty centimetres.