Books in highlight

MAGICAL CUBE

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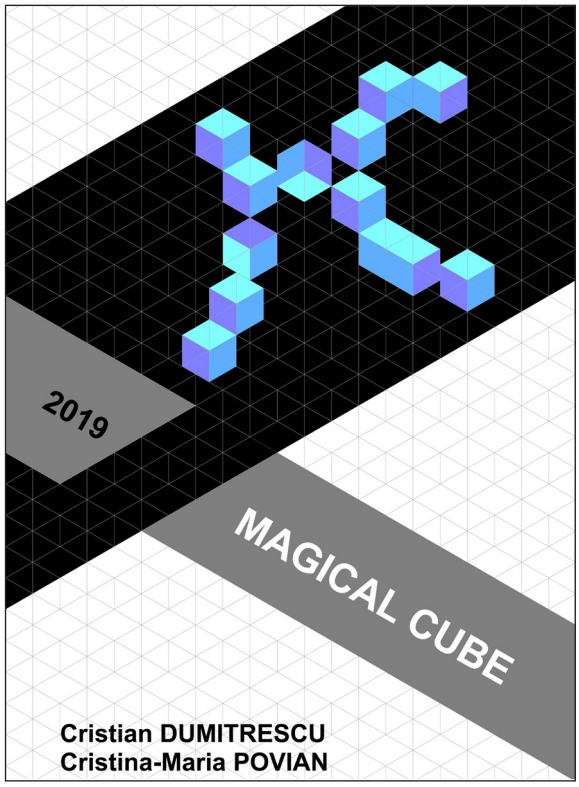

Short description of the context

This book describes a didactic method that has been perfected during many years of teaching.
The cube, this paper's protagonist, initiates the reader into the secrets of technical drawing representations and helps acquire the necessary skills to imagine and illustrate in plane representation various spatial objects.

Purpose and Motivation of the book

The aim of this book is to help those who have the required tenacity and motivation to acquire the necessary plane representation skills to illustrate space in different poses.

Summary

The plane images of different spatial elements are represented in view, axonometry and perspective that are illustrated in relationship with a wireframe cube. With these images, we will perform a series of visual, positioning and processing operations that are grouped into 12 chapters according to a specific topic.
After we will look at the basics of axonometric and view representations of space shapes (chapter 1), we will view them from different spatial areas (chapter 2), they will be positioned (chapter 3) and illustrated in space using particular components (chapter 4), inscribed into each other or tangent (chapter 5), unfolded on a plane (6) or geometrically transformed (7) sectioned (8), rotated (9) or intersected with different solids or voids (10).
Chapter 11 presents these volumes in a conic projection through perspective images and the last chapter compares all these plane representations of spatial elements: view, axonometry and free perspective.
The paper concludes with a series of graphic constructions, grouped in different categories which will be used whenever needed.