



Geometry and its Applications in Arts, Nature and Technology

By Georg Glaeser

Ambra Dez 2012, 2012. Buch. Book Condition: Neu. 245x180x30 mm. Neuware - Geometry and its Applications is meant to address those who are interested in geometrical relationships, from simple plane geometry problems to difficult tasks in spatial geometry. The main emphasis is on the application of geometry in different fields such as engineering, biology, art history and music. Important geometrical terms and concepts such as multi-view projection and 3D projection, curve bends and surface cambering, the geometry of movement and non-Euclidian space are explained with many examples and numerous photos. Two practical tutorials round off this volume: free-hand geometrical drawing and the geometry of photography. Easy to understand tips support readers as they create their own distinctive, accurate spatial sketches. Introduction.- An idealized world out of simple elements: Points, straight lines and circles in the drawing plane. Special points inside the triangle. Elemental building blocks in space. Euclidean space. Polarity, duality and inversion. Projective and non-euclidean geometry.- Projections and shadows - Reduction of the dimension: The principle of the central projection. Through restrictions to parallel projection and normal projection. Assigned normal projections. The difference about technical drawing.- Polyhedra: Multiple faced and multi-sided: Congruence transformations. Convex polyhedral. Platonic solids. Other special...



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