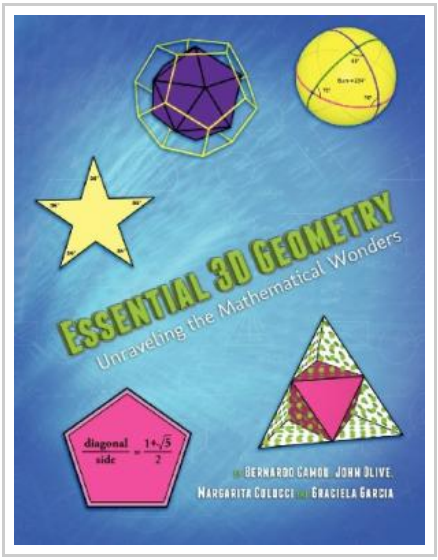

Essential 3D Geometry: Unraveling the Mathematical Wonders

By John Olive

University Readers. Paperback. Book Condition: New. Paperback. 114 pages. Dimensions: 10.9in. x 8.5in. x 0.4in.We live out our lives in a three dimensional world. However, our understanding of what this means is meager, and the study of 3D Geometry is markedly absent from our educational system. Essential 3D Geometry: Unraveling the Mathematical Wonders bridges the gap between current mathematical knowledge and our fascinatingand unexplored3D world. Originally developed by and for high school students, the material in Essential 3D Geometry has been successfully developed into a college-level text for pre-service teachers. The book offers an original and unique approach for learning mathematicsiMAT engineeringwhich is based on the principle that learning mathematics is an integrated activity calling for multi-type presentations of mathematical objects through the use of different technologies. The text begins with a thorough study of the building blocks of spatial structures, the five Platonic Solids. The material integrates 2D and 3D geometry, as well as algebra and trigonometry. Subsequent chapters cover a variety of topics including Thales Theorem, the volume of the Platonic solids and non-regular tetrahedrons, circumcircles and circum-spheres, Archimedean Bodies, and spatial transformations. Students will learn to produce and make use of three types of representation of 3D...

Reviews

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