



Robbinss New Solid Geometry

By Edward Rutledge Robbins

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 44 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1916 edition. Excerpt: . . . Similar polyhedrons are polyhedrons which have the same number of faces similar each to each and similarly placed, and which have their homologous polyhedral angles equal. Proposition XXIX. Theorem 630. There can exist no more than five kinds of regular polyhedrons. Proof: The faces must be equilateral A, squares, regular pentagons, or some other regular polygons. (629.) There must be at least three faces at each vertex. (565.) The sum of the face A at each vertex is 360. (549.) I. Each Z of an equilateral A 60 (). Hence we may form a polyhedral Z by placing 3, 4, or 5 equilateral A at a vertex, but not 6 (). That is, only three regular polyhedrons can be formed having equilateral triangles for faces. II. Each Z of a square 90 (). Hence we may form a polyhedral Z by...



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