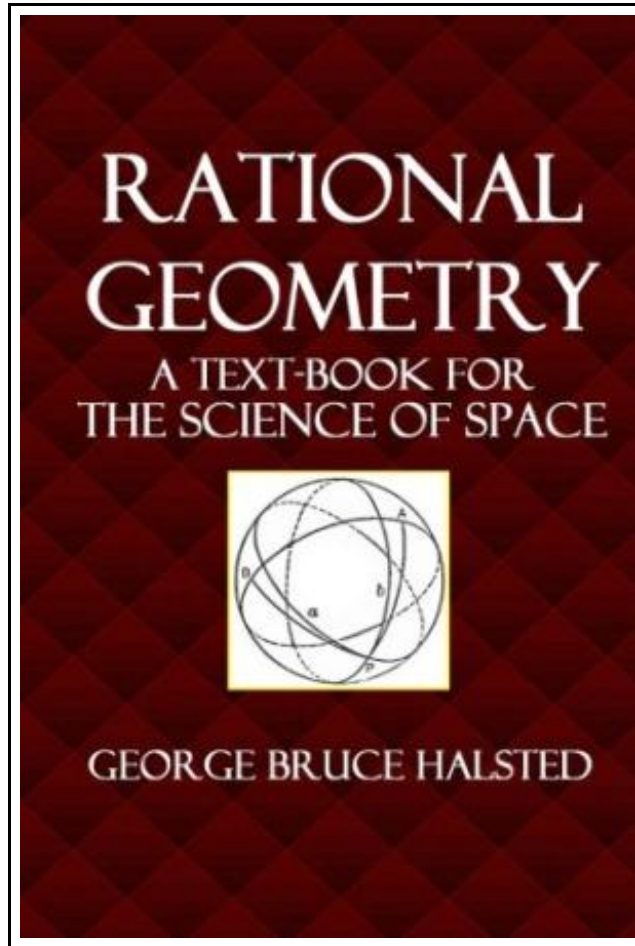# Rational Geometry: A Text-Book for the Science of Space



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# RATIONAL GEOMETRY: A TEXT-BOOK FOR THE SCIENCE OF SPACE

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Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Although so many books on elementary geometry are continually appearing, no apology need be offered for the publication of the present work. It has nothing in common with the ordinary text-book, except that it deals with the same subject. Prof. Halsted yields to none in his reverence for the marvellous work achieved by Euclid; nevertheless, he belongs to that school of mathematicians which maintains that Euclid s system is not infallible; that his theory is, in fact, built up from an imperfect and incomplete set of fundamental axioms to which he himself tacitly and, perhaps even unconsciously, added. In the opinion of Prof. Halsted and kindred thinkers it has become necessary, for the advancement of truth, that the system which has held sole sway for so many centuries should give place to another and a better one. Unlike many of the writers who undertake the task of reforming Euclid, Prof. Halsted shows no tendency to be content with less rigid proof: on the contrary, he urges the necessity for the utmost rigour; and this, we venture to think, is one of the strongest of his many strong claims to consideration. He asserts that the principles which form the groundwork of his book secure both greater simplicity and increased rigour for his demonstrations. Hilbert s Foundations of Geometry furnish the basis for the present treatise. Accustomed as we are to the small number of simply worded axioms which are met with in Euclid, it is somewhat difficult to acquire readily a comprehensive grasp of the five groups of assumptions considered essential by Hilbert, and, seeing that an authority as notable as Poincare failed to detect the redundancy of one...

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