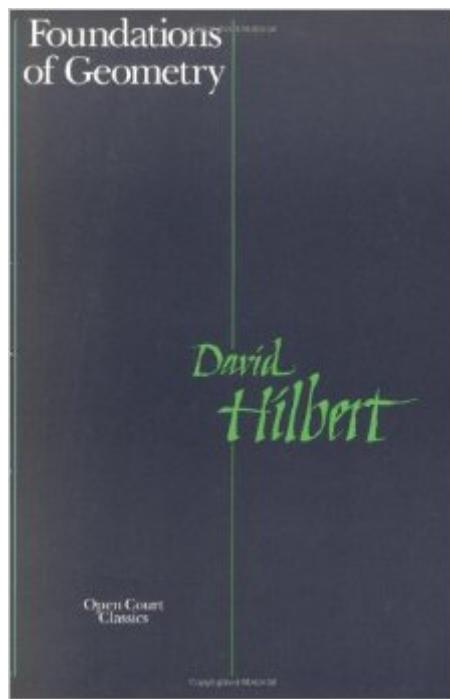


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# Foundations Of Geometry



## Synopsis

Along with the writings of Hilbert's friend and correspondent Frege, Hilbert's Foundations of Geometry set the stage for Russell and Whitehead's Principia Mathematica. Hilbert presents a new axiomatization of geometry to algebra, and introduces the distinction between mathematics and metamathematics, with a new theory of proof.

## Book Information

Paperback: 226 pages

Publisher: Open Court; 2nd English ed. edition (January 22, 1999)

Language: English

ISBN-10: 0875481647

ISBN-13: 978-0875481647

Product Dimensions: 6 x 0.6 x 9 inches

Shipping Weight: 13.6 ounces

Average Customer Review: 4.4 out of 5 stars See all reviews (5 customer reviews)

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Hilbert gives his new system of axioms and studies their consistency, independence and necessity. Consider for example the theorem that the angle sum in any triangle cannot be greater than two right angles. We can prove it as follows. Consider a triangle ABC with the angles labelled so that  $\angle A$ ,  $\angle B$ ,  $\angle C$

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