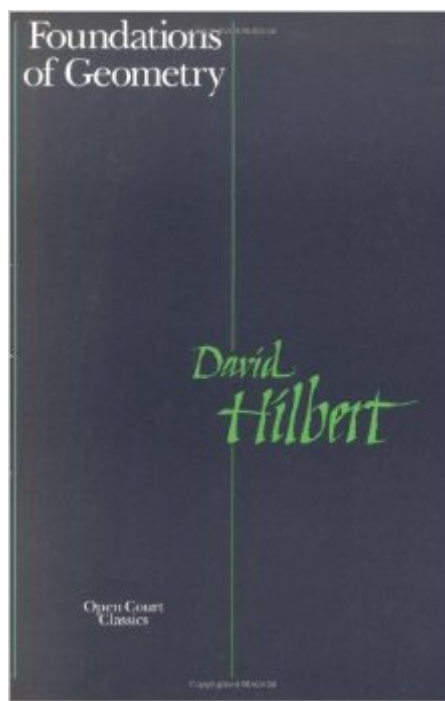


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# Foundations Of Geometry



## 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

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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 ABC

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