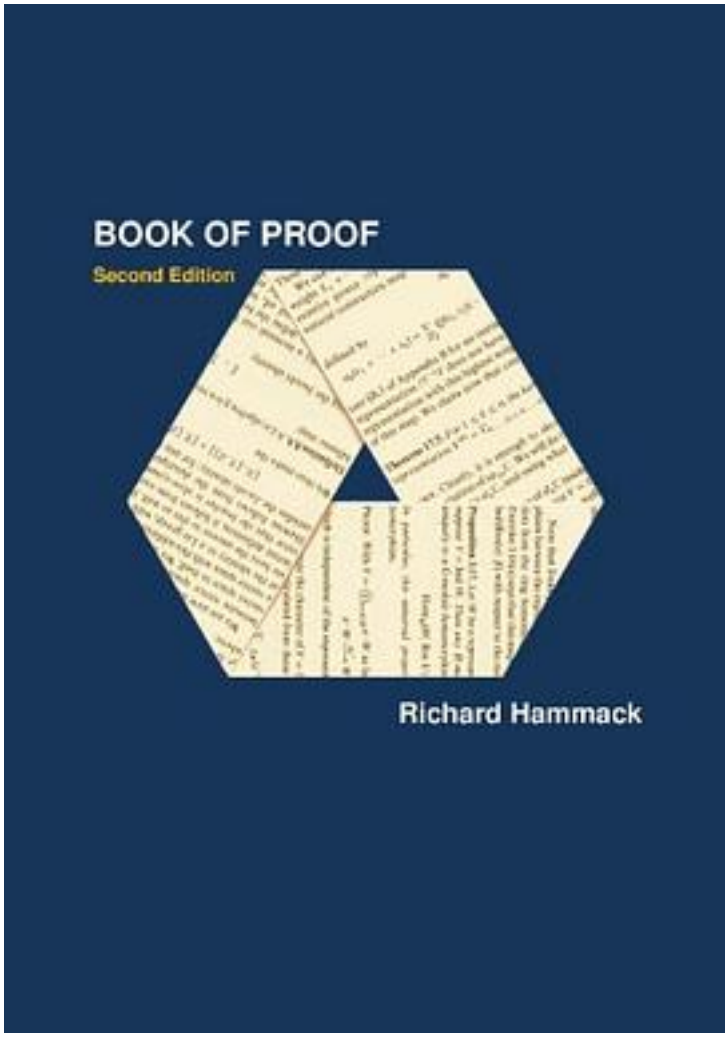
Book of Proof



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This book is an introduction to the language and standard proof methods of

mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity. Topics include sets, logic, counting, methods of conditional and non-conditional proof, disproof, induction, relations, functions and infinite cardinality.

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Richard Hammack is an associate professor of mathematics at Virginia Commonwealth University in Richmond. A native of rural southern Virginia, he studied painting at Rhode Island School of Design before an interest in computer graphics and visualization led him to mathematics. He works mostly in the areas of combinatorics and graph theory.

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英语有些术语和中文不统一，有时会让人一头雾水。例如对数学的分类，国外大致是以

纯数学和应用数学作为分界线。而国内流行的“高等数学”在国外则分别称为“微积分”，“高等代数”则大致上等于线性代数+多项式。有趣的是，英语中也有所谓“higher math”，中文没有相应名称，...

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