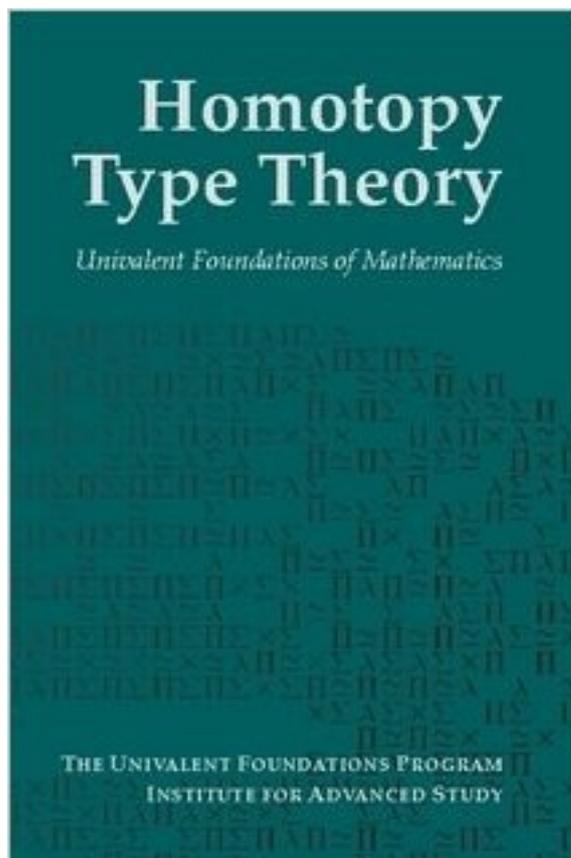


Homotopy Type Theory



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著者:Univalent Foundations Program

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Homotopy type theory is a new branch of mathematics that combines aspects of several different fields in a surprising way. It is based on a recently discovered connection between homotopy theory and type theory. It touches on topics as seemingly distant as the homotopy groups of spheres, the algorithms for type checking, and the definition of weak ∞ -groupoids. Homotopy type theory offers a new

“univalent” foundation of mathematics, in which a central role is played by Voevodsky’s univalence axiom and higher inductive types. The present book is intended as a first systematic exposition of the basics of univalent foundations, and a collection of examples of this new style of reasoning — but without requiring the reader to know or learn any formal logic, or to use any computer proof assistant. We believe that univalent foundations will eventually become a viable alternative to set theory as the “implicit foundation” for the unformalized mathematics done by most mathematicians.

作者介绍:

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标签

数学

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pl

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评论

过时了的

一年内各路作者齐贡献 各章不太统一 但绕不开啊【believe it or not there is a textbook about hott...【最后几章读不动了姑且就标个读过吧。。。】

翻到这个图书，真心想做一B站视频。背景音乐是基督教福音歌曲Amazing Grace，画面前端放一个瑞脑消金兽的那个香炉，旁边是你这些年读过的所有数学书，还有一个蓝色纸板做的B乎logo……然后你在画面中奋力地焚烧着，对要奋力地焚烧着，要做出画作呐喊那种表情，要燃出焚琴煮鹤的爽快，要烧出南美大盗焚币的豪情！最后画面逐渐淡出消失出现一行字：这世界没有本质，只存在表象，只有不同的角度与层次……最后飘出结束语：几年后他/她走上了人生巅峰，迎娶白富美，下嫁高富帅！哈哈！说正经的，这本书的方向可以观望观望，毕竟太年轻。但把同伦作为类型的语义从而对数学提出新的理解，这种想法却起源较早。而数学机械化的思想甚至可以称之为古老。

风逝。不看因为不知道有什么用。

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书评

Will Computers Redefine the Roots of Math? A Story from Quanta Magazine

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