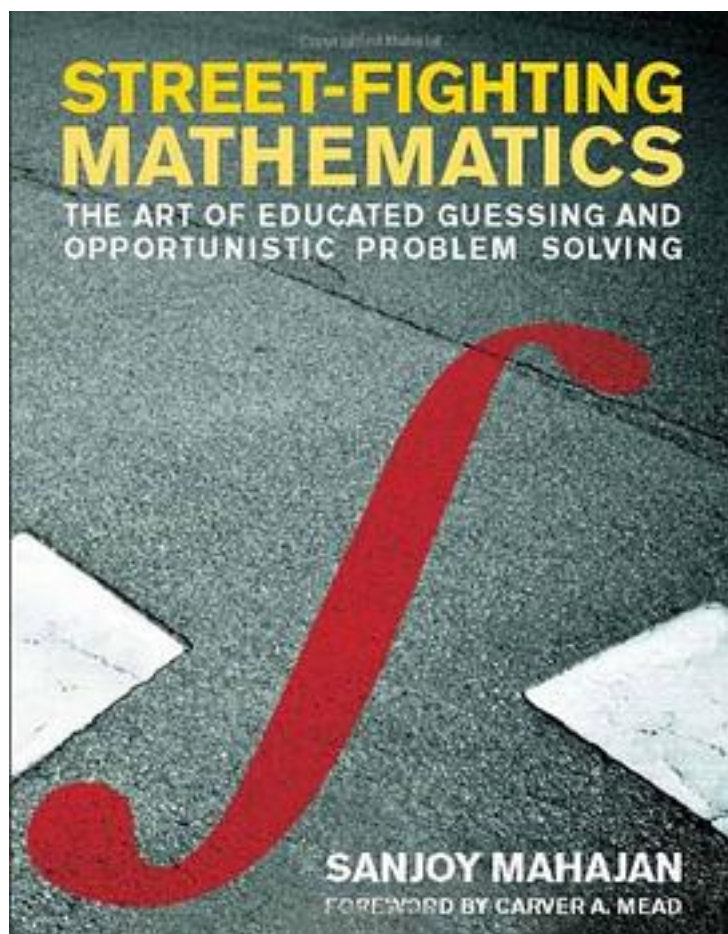


Street-Fighting Mathematics



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著者:Sanjoy Mahajan

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In problem solving, as in street fighting, rules are for fools: do whatever works--don't just stand there! Yet we often fear an unjustified leap even though it may land us on a correct result. Traditional mathematics teaching is largely about solving exactly stated

problems exactly, yet life often hands us partly defined problems needing only moderately accurate solutions. This engaging book is an antidote to the rigor mortis brought on by too much mathematical rigor, teaching us how to guess answers without needing a proof or an exact calculation. In *Street-Fighting Mathematics*, Sanjoy Mahajan builds, sharpens, and demonstrates tools for educated guessing and down-and-dirty, opportunistic problem solving across diverse fields of knowledge--from mathematics to management. Mahajan describes six tools: dimensional analysis, easy cases, lumping, picture proofs, successive approximation, and reasoning by analogy. Illustrating each tool with numerous examples, he carefully separates the tool--the general principle--from the particular application so that the reader can most easily grasp the tool itself to use on problems of particular interest. *Street-Fighting Mathematics* grew out of a short course taught by the author at MIT for students ranging from first-year undergraduates to graduate students ready for careers in physics, mathematics, management, electrical engineering, computer science, and biology. They benefited from an approach that avoided rigor and taught them how to use mathematics to solve real problems. *Street-Fighting Mathematics* will appear in print and online under a Creative Commons Noncommercial Share Alike license.

作者介绍:

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标签

数学

Mathematics

problem_solving

非数学

英文版

编程

科学和心理学

标题党

评论

居然！有！电子版！我花了十几刀！买了就这么薄薄一百页小小的纸。。。

<http://ishare.iask.sina.com.cn/f/7753966.html>

写这本书的人是技校Ph101课当年的TA，那门课和这本书都是基本上教授人如何在五秒钟之内糊傻逼的熊脸从而产生智商上的优越感——本世纪最烦人而无用的技能之一。

Sterl Phinney的学生果然搞到了老板的一部分技能，但是已经可以虐菜了。

骨骼精奇

看过后只是知道有这些思路的存在，

"奥数基本素养"...大概就是一些近似估计简化之类的思路/思维方式介绍吧...不过书名到时取地挺贴切的..."实用格斗技巧"...

讲了一些大学理科常用的计算技巧，edX上有公开课
<http://mooc.guokr.com/course/987/Street-Fighting-Math/>。总的来说，比较适合低年级本科生。高年级本科生或者研究生可能觉得太简单了。

看了些

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书评

貌似挺NB的样子，下了电子版还没来得及看 让我想起了Carl Bender在PIRSA的视频
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mitpress.mit.edu/books/full_pdfs/Street-Fighting_Mathematics.pdf
抱歉，你的评论太短了 抱歉，你的评论太短了 抱歉，你的评论太短了
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