



Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press)

Sanjoy Mahajan, Carver A. Mead

[Download now](#)

[Click here](#) if your download doesn't start automatically

Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press)

Sanjoy Mahajan, Carver A. Mead

Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) Sanjoy Mahajan, Carver A. Mead

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.

 [Download Street-Fighting Mathematics: The Art of Educated G ...pdf](#)

 [Read Online Street-Fighting Mathematics: The Art of Educated ...pdf](#)

Download and Read Free Online Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) Sanjoy Mahajan, Carver A. Mead

From reader reviews:

Shari Yung:

What do you think of book? It is just for students as they are still students or the idea for all people in the world, exactly what the best subject for that? Just you can be answered for that query above. Every person has various personality and hobby for each other. Don't to be pressured someone or something that they don't wish do that. You must know how great and important the book Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press). All type of book can you see on many sources. You can look for the internet methods or other social media.

Jeremy Smith:

Typically the book Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) will bring you to the new experience of reading some sort of book. The author style to elucidate the idea is very unique. When you try to find new book to see, this book very acceptable to you. The book Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) is much recommended to you to learn. You can also get the e-book from your official web site, so you can more readily to read the book.

Patricia Gross:

Beside this particular Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) in your phone, it might give you a way to get nearer to the new knowledge or data. The information and the knowledge you can got here is fresh from oven so don't always be worry if you feel like an older people live in narrow small town. It is good thing to have Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) because this book offers to your account readable information. Do you occasionally have book but you do not get what it's exactly about. Oh come on, that would not happen if you have this inside your hand. The Enjoyable option here cannot be questionable, like treasuring beautiful island. Use you still want to miss the item? Find this book in addition to read it from currently!

Joseph Navarro:

Is it an individual who having spare time and then spend it whole day simply by watching television programs or just telling lies on the bed? Do you need something totally new? This Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) can be the response, oh how comes? It's a book you know. You are consequently out of date, spending your spare time by reading in this new era is common not a geek activity. So what these books have than the others?

Download and Read Online Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) Sanjoy Mahajan, Carver A. Mead #WI3HE0PZDJL

Read Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) by Sanjoy Mahajan, Carver A. Mead for online ebook

Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) by Sanjoy Mahajan, Carver A. Mead Free PDF download, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) by Sanjoy Mahajan, Carver A. Mead books to read online.

Online Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) by Sanjoy Mahajan, Carver A. Mead ebook PDF download

Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) by Sanjoy Mahajan, Carver A. Mead Doc

Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) by Sanjoy Mahajan, Carver A. Mead Mobipocket

Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving (MIT Press) by Sanjoy Mahajan, Carver A. Mead EPub