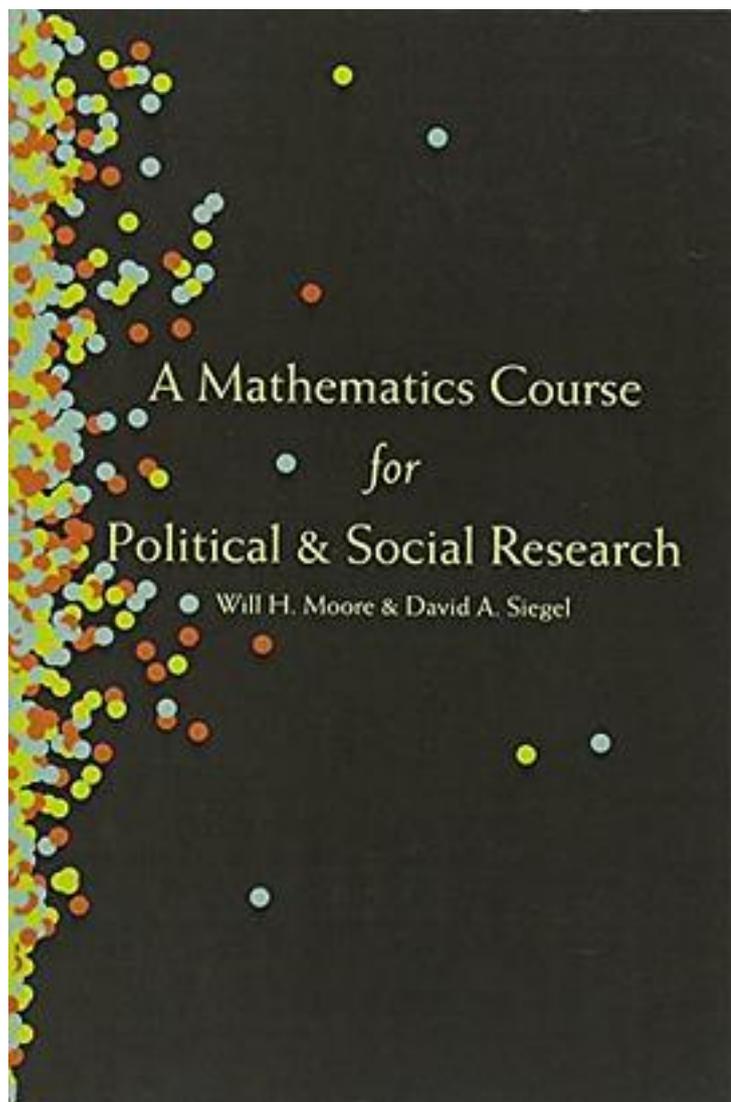


# A Mathematics Course for Political and Social Research



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著者:Will H. Moore

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Political science and sociology increasingly rely on mathematical modeling and sophisticated data analysis, and many graduate programs in these fields now require students to take a “math camp” or a semesterlong or yearlong course to acquire the necessary skills.

The problem is that most available textbooks are written for mathematics or economics majors, and fail to

convey to students of political science and sociology the reasons for learning often-abstract mathematical concepts. A Mathematics Course for Political and Social Research fills this gap, providing both a primer for math novices and a handy reference for seasoned researchers.

The book begins with the fundamental building blocks of mathematics and basic algebra, then goes on to cover essential subjects such as calculus in one and more than one variable, including optimization, constrained optimization, and implicit functions; linear algebra, including Markov chains and eigenvectors;

and probability. It describes the intermediate steps most other textbooks leave out, features numerous exercises throughout, and grounds all concepts by illustrating their use and importance in political science and sociology.

作者介绍:

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## 标签

Methodology

方法论

数学

政治学

Math

英文版

自我启发

统计学

## 评论

啊哈哈对自己数学水平终于有了点自信

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A bit too simple...

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勉强强强的一部作品。不同国家高中时代的数学教育水准有着很大的差别，每个人的数

学修养也有很大的差异。就数学的外行人来说，自然希望寻求一部，不那么技术化，不那么注重逻辑推演，而强调运用的作品。任何一部单纯的数理统计学，数学解析，几何论的大学数学教科书，就已经够让文系学生头大的了。但是，很遗憾，我个人并不能完全对此书感到满意。就Public Choice, Game theory等理论政治学在上世纪的发展来看，若干定理的推导和证明已经有了一定程度的积蓄。而计量政治研究的学者，则现在更侧重R和Stata软件与计量经济学的学习。从两方面来说，此书都有些费力不讨好。还是建议学生认真掌握量力而行的微积分，线性代数和数理统计必要的数学教养比较好。经济数学的很多教程都非常不错，可以自行参考

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书评

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