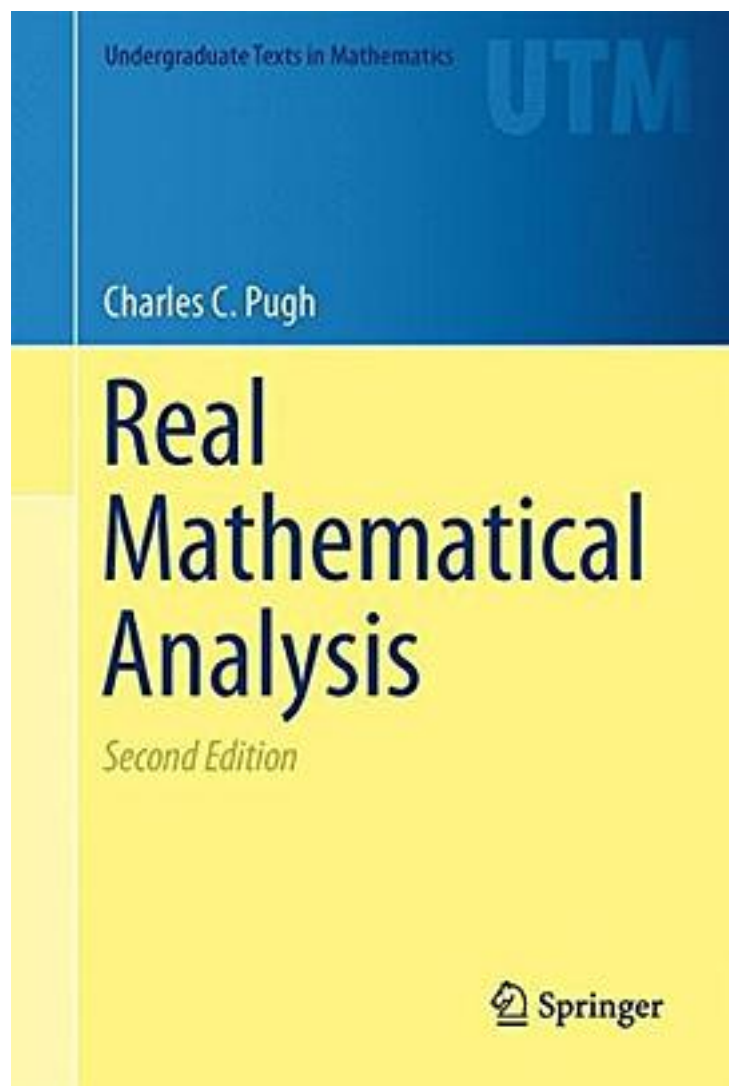# Real Mathematical Analysis

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著者:Charles Chapman Pugh

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Was plane geometry your favourite math course in high school? Did you like proving theorems? Are you sick of memorising integrals? If so, real analysis could be your cup of tea. In contrast to calculus and elementary algebra, it involves neither formula manipulation nor applications to other fields of science. None. It is Pure Mathematics, and it is sure to appeal to the budding pure mathematician. In this new introduction to undergraduate real analysis the author takes a different approach from past studies of the subject, by stressing the importance of pictures in mathematics and hard problems. The exposition is informal and relaxed, with many helpful asides, examples and occasional comments from mathematicians like Dieudonne, Littlewood and Osserman. The author has taught the subject many times over the last 35 years at Berkeley and this book is based on the honours version of this course. The book contains an excellent selection of more than 500 exercises.

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书评

此书内容上虽然跟国内实变函数教材有交集，但作者序言中说明此书的预期读者是"budding pure mathematician"(我译成"含苞待放的纯数学家"），而且暗示先导课是普通的微积分，证明此书就是美国的"高等微积分"教材，应该译为"真正的数学分析"或者"数学分析当如此"lol..

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