ANALYSIS I
THIRD EDITION
Terence Tao, University of California, Los Angeles

This is part one of a two-volume introduction to real analysis and is intended for honours undergraduates who have already been exposed to calculus. The material starts at the very beginning—the construction of the number systems and set theory—then goes on to the basics of analysis, through to power series, several variable calculus and Fourier analysis, and finally to the Lebesgue integral. The entire text is deeply intertwined with exercises and (omitting some less central topics) can be taught in two quarters of twenty-five to thirty lectures each.

In the third edition, several typos and other errors have been corrected and a few new exercises have been added.

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ANALYSIS II
THIRD EDITION
Terence Tao, University of California, Los Angeles

This is part two of a two-volume introduction to real analysis and is intended for honours undergraduates who have already been exposed to calculus. The material starts at the very beginning—the construction of the number systems and set theory—then goes on to the basics of analysis, through to power series, several variable calculus and Fourier analysis, and finally to the Lebesgue integral. The entire text is deeply intertwined with exercises and (omitting some less central topics) can be taught in two quarters of twenty-five to thirty lectures each.

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