



# The Nuts and Bolts of Proofs: An Introduction to Mathematical Proofs

*Antonella Cupillari*

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## **The Nuts and Bolts of Proofs: An Introduction to Mathematical Proofs** Antonella Cupillari

The Nuts and Bolts of Proof instructs students on the basic logic of mathematical proofs, showing how and why proofs of mathematical statements work. It provides them with techniques they can use to gain an inside view of the subject, reach other results, remember results more easily, or rederive them if the results are forgotten. A flow chart graphically demonstrates the basic steps in the construction of any proof and numerous examples illustrate the method and detail necessary to prove various kinds of theorems.

- \* The "List of Symbols" has been extended.
- \* Set Theory section has been strengthened with more examples and exercises.
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