

# Thomson Elementary Real Analysis Solutions Manual

*Papa Rudin, the famous analysis book in the world \\'Real and Complex Analysis by Walter Rudin\''*

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*Real Analysis Book from the 1960s A Mathematical Analysis Book so Famous it Has a Nickname Book that Covers Undergraduate and Graduate Mathematical Analysis*

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*A Classic Book on Real Analysis from the 1960s*

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*ELEMENTARY REAL ANALYSIS Second Edition (2008) ... Thomson\*Bruckner\*Bruckner Elementary Real Analysis, 2nd Edition (2008) iv Notes 27 2 SEQUENCES 29 2.1 Introduction 29 2.2 Sequences 31 2.2.1 Sequence Examples 33 2.3 Countable Sets 37 2.4 Convergence 41 2.5 Divergence 47*

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*Text for two semesters of undergraduate real analysis ; Two PDF versions Hyperlinked and formatted for computer screens; Formatted for printing; May be printed for individual use but authors have reserved all rights for print distribution. Published versions available as one or two volumes Combined (740 pages, \$33.95)*

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*"Elementary Real Analysis" is written in a rigorous, yet reader friendly style with motivational and historical material that emphasizes the "big picture" and makes proofs seem natural rather than mysterious. Introduces key concepts such as point set theory, uniform continuity of functions and uniform convergence of sequences of functions.*

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***Elementary real analysis \ Brian S. Thomson, Judith B ...***

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*Andrew M. Bruckner, Judith B. Bruckner, Brian S. Thomson. Prentice-Hall, 1997, xiv 713 pp. [ISBN 0-13-458886-X] Second Edition available free for download from [www.classicalrealanalysis.com](http://www.classicalrealanalysis.com).*

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***Brian S. Thomson - Simon Fraser University***

*Let  $g(x)$  be a real-valued function defined on a subset  $A$  of the real line  $\mathbb{R}$  and let  $f(x)$  be a bounded function on the domain of  $g$  (i.e. there exists a positive number  $M$  such that  $|f(x)| \leq M$  for all  $x$  in  $A$ ). Show that if  $g(x)$  has zero limit at  $x=c$  where  $c$  is a point of accumulation of  $A$  then  $f(x)g(x)$  also has zero limit at  $x=c$ .*

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*Text: Required - Elementary Real Analysis by Thomson, Bruckner, Bruckner; 2nd Edition, ISBN 143484367X. Syllabus and Schedule: We will follow the departmental syllabus closely. This course has two goals: 1) To introduce undergraduate students to rigorous mathematics and how to*

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*Elementary Real Analysis (Second Edition), by B.S. Thomson, J.B. Bruckner, and A.M. Bruckner, classicalrealanalysis.com, 2008, ISBN 1-434841-61-8. Parts of the text, including the sections we need for the first half of the course, may be downloaded for free in pdf format from the given web site.*

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*An Introduction to Analysis by William R. Wade (4th Edition) Prentice Hall, 2004, ISBN#0-13-145333-5. Other Useful Textbooks: Elementary Real Analysis (Second Edition, 2008) by Brian S. Thomson, Judith B. Bruckner, and Andrew M. Bruckner*

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***Math 125B: Real Analysis***

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