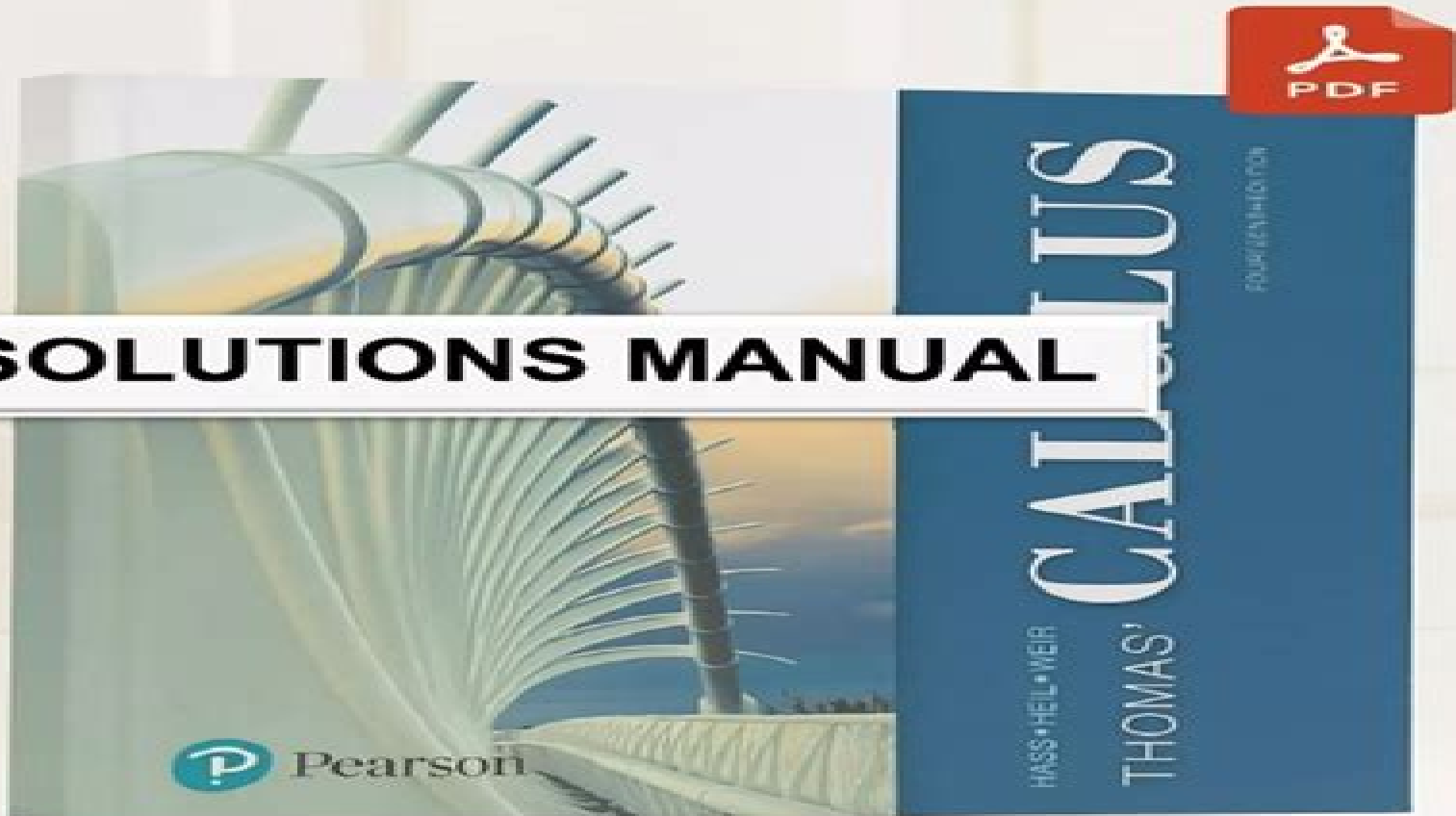


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Counterexamples on Uniform Convergence Andrei Bourchtein, Ludmila Bourchtein, 2017-02-13 A comprehensive and thorough analysis of concepts and results on uniform convergence Counterexamples on Uniform Convergence Sequences Series Functions and Integrals presents counterexamples to false statements typically found within the study of mathematical analysis and calculus all of which are related to uniform convergence The book includes the convergence of sequences series and families of functions and proper and improper integrals depending on a parameter The exposition is restricted to the main definitions and theorems in order to explore different versions wrong and correct of the fundamental concepts and results The goal of the book is threefold First the authors provide a brief survey and discussion of principal results of the theory of uniform convergence in real analysis Second the book aims to help readers master the presented concepts and theorems which are traditionally challenging and are sources of misunderstanding and confusion Finally this book illustrates how important mathematical tools such as counterexamples can be used in different situations The features of the book include An overview of important concepts and theorems on uniform convergence Well organized coverage of the majority of the topics on uniform convergence studied in analysis courses An original approach to the analysis of important results on uniform convergence based on counterexamples Additional exercises at varying levels of complexity for each topic covered in the book A supplementary Instructor's Solutions Manual containing complete solutions to all exercises which is available via a companion website Counterexamples on Uniform Convergence Sequences Series Functions and Integrals is an appropriate reference and or supplementary reading for upper undergraduate and graduate level courses in mathematical analysis and advanced calculus for students majoring in mathematics engineering and other sciences The book is also a valuable resource

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