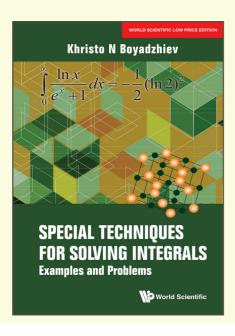




# **Special Techniques for Solving Integrals**

## **Examples and Problems**



By **Khristo N. Boyadzhiev** 

(Ohio Northern University, USA)

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#### **ABOUT THE BOOK**

This volume contains techniques of integration which are not found in standard calculus and advanced calculus books. It can be considered as a map to explore many classical approaches to evaluate integrals. It is intended for students and professionals who need to solve integrals or like to solve integrals and yearn to learn more about the various methods they could apply. Undergraduate and graduate students whose studies include mathematical analysis or mathematical physics will strongly benefit from this material. Mathematicians involved in research and teaching in areas related to calculus, advanced calculus and real analysis will find it invaluable.

The volume contains numerous solved examples and problems for the reader. These examples can be used in classwork or for home assignments, as well as a supplement to student projects and student research.

### **READERSHIP**

Graduate and undergraduate students, professors and researchers in mathematics related to calculus, advanced calculus, mathematical analysis, real analysis, and mathematical physics; physics, and engineering.

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#### **ABOUT THE AUTHOR**

**Khristo N Boyadzhiev** is a Professor of Mathematics (PhD, 1978) with 90 published papers in professional journals (more than 800 citations) and one book. He is a member of the American Mathematical Society, and an editorial board member of the journal *Advances and Applications in Discrete Mathematics*. He has won the 2019 Faculty Research and Scholarship Award for "Recognition of Achievement" and the Carl B Allendoerfer Award for 2013 from the Mathematical Association of America. He is an active reviewer for Zentralblatt MATH (501 reviews) and Mathematical Reviews (250 reviews). He teaches undergraduate and graduate courses in Calculus, Geometry, Linear Algebra, Differential Equations, Complex Variables, College Algebra and Trigonometry, Foundations of Mathematics, Real Analysis, Functional Analysis, Fourier Analysis and Partial Differential Equations.



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