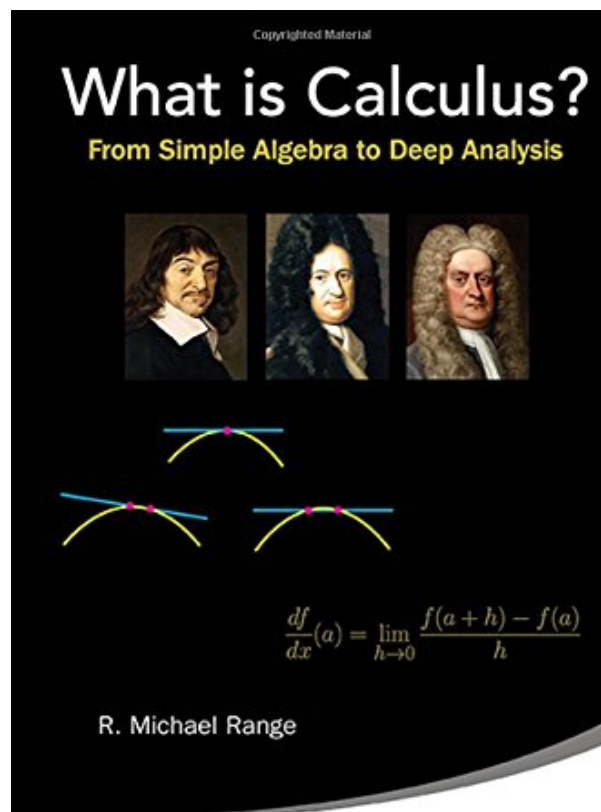


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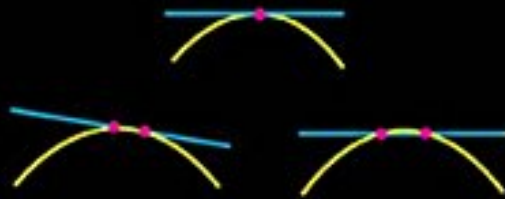
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From the Inside Flap

This unique book provides a new and well-motivated introduction to calculus and analysis that are historically significant fundamental areas of mathematics and widely used in many disciplines. It begins with familiar elementary high school geometry and algebra, and develops important concepts such as tangents and derivatives without ever using any advanced tools based on limits and infinite processes that dominate the traditional introductions to the subject.

The author carefully develops the necessary foundations while minimizing the use of technical language, and expertly guides the reader to deep fundamental analysis results, including completeness, key differential equations, definite integrals, Taylor series for standard functions, and the Euler identity. This pioneering book takes the sophisticated reader from simple familiar algebra to the heart of analysis. Furthermore, it should be of interest as supplementary reading and source of new ideas for high school teachers, and for students and instructors of calculus and analysis.

About the Author

R Michael Range is an expert in multidimensional complex analysis. He has written numerous articles for professional journals, and he is the author of a widely known book in the field that was first published in 1986. He has also won a Lester R Ford award of the American Mathematical Association for one of his expository articles. Besides advanced graduate level courses, he has taught calculus and analysis at all levels over many years. These experiences have led him to search for alternate approaches and simplifications that are reflected in this path-breaking book.

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The author carefully develops the necessary foundations while minimizing the use of technical language. He expertly guides the reader to deep fundamental analysis results, including completeness, key differential equations, definite integrals, Taylor series for standard functions, and the Euler identity. This pioneering book takes the sophisticated reader from simple familiar algebra to the heart of analysis. Furthermore, it should be of interest as a source of new ideas and as supplementary reading for high school teachers, and for students and instructors of calculus and analysis.

Readership: Undergraduates, high school students, instructors and teachers, and scientifically literate readers with special interest in calculus and analysis.

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