New Horizons in Geometry (Dolciani Mathematical Expositions)

By Tom Apostol, Mamikon Mnatsakanian

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New Horizons in Geometry represents the fruits of 15 years of work in geometry by a remarkable team of prize-winning authors Tom Apostol and Mamikon Mnatsakanian. It serves as a capstone to an amazing collaboration. Apostol and Mamikon provide fresh and powerful insights into geometry that requires only a modest background in mathematics. Using new and intuitively rich methods, they give beautifully illustrated proofs of results, the majority of which are new, and frequently develop extensions of familiar theorems that are often surprising and sometimes astounding. It is mathematical exposition of the highest order.

The hundreds of full color illustrations by Mamikon are visually enticing and provide great motivation to read further and savor the wonderful results. Lengths, areas, and volumes of curves, surfaces, and solids are explored from a visually captivating perspective. It is an understatement to say that Apostol and Mamikon have breathed new life into geometry.

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Editorial Review

Review
In a remarkable display of mathematical versatility and imagination, the authors present us with a wealth of geometrical gems. These beautiful and often surprising results deal with a multitude of geometric forms, their interrelationships, and in many cases, their connection with patterns underlying the laws of nature. --Don Chakerian

--Professor M.J. Sewell, Mathematics Today

New Horizons in Geometry is a compendium of joint work produced by the authors during the period 1998-2012, most of it published in the *American Mathematical Monthly, Math Horizons, Mathematics Magazine*, and *The Mathematical Gazette.* The published papers have been edited, augmented and rearranged into 15 chapters dealing with several parts of classical geometry. The authors provide fresh and powerful insights into geometry that requires only a modest background in mathematics. Using new and intuitively rich methods, they give beautifully illustrated proofs of results and extensions of familiar theorems. Lengths, areas and volumes of curves, surfaces and solids are explored from a visually captivating perspective. Powerful geometric methods are used to solve standard calculus problems. Constructions and mechanical interpretations in the spirit of Archimedes involving centroids and moments are carried to new heights and to higher dimensional spaces. The hundreds of full color illustrations are visually enticing and provide great motivation to read further and savor the wonderful results. This book is a must have for any geometer. --Dirk Keppen, Zentrallblatt MATH

*Readers of **New Horizons in Geometry** are in for a great ride in the spirit of Archimedes through a beautiful geometrical landscape that will give you considerable pleasure and a heightened appreciation for a wonderful subject.* --Don Albers, former Director of MAA Publications

About the Author
Tom Apostol is an Emeritus Professor of Mathematics at the California Institute of Technology.

Mamikon Mnatsakanian is Project Associate at 'Project Mathematics!' at the California Institute of Technology.

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