

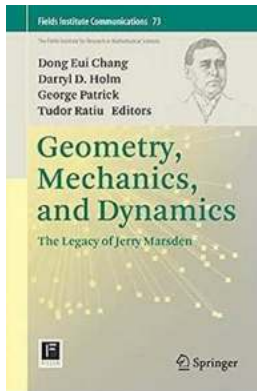
The Legacy of Jerry Marsden: A Pioneer in Mathematics - Fields Institute Communications 73

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Geometry, Mechanics, and Dynamics: The Legacy of Jerry Marsden (Fields Institute Communications Book 73) by Yasmina Khadra (2015th Edition, Kindle Edition)

★★★★☆ 4.6 out of 5

Language : English

File size : 12918 KB

Screen Reader : Supported

Print length : 514 pages



Jerry Marsden: A Brief Biography

Gerald "Jerry" Marsden was born on August 17, 1942, in Toronto, Canada. He was a prominent mathematician and applied mathematician, making significant contributions to various fields such as geometric mechanics, control theory, and fluid dynamics.

Marsden pursued his undergraduate studies at the University of Toronto, where he developed a deep interest in mathematics. He went on to earn his Ph.D. from Princeton University in 1964 under the supervision of Donald Spencer. His doctoral thesis focused on Morse Theory, a branch of mathematics that investigates the behavior of functions on manifolds.

After completing his doctorate, Marsden joined the faculty at the University of California, Berkeley, where he spent the majority of his academic career. He

served as a professor of mathematics and held the prestigious position of the Carl F. Braun Professor of Engineering and Control & Dynamical Systems at Caltech until his retirement in 2010. Throughout his career, he attracted many talented students and collaborated with numerous researchers, making significant advancements in his fields of interest.

The Fields Institute Communications 73 - A Tribute to Jerry Marsden

One of the noteworthy contributions to mathematics by Jerry Marsden was his work on geometric mechanics. He developed the theory of Lie groupoids and Lie algebroids, which provided powerful tools for the study of symmetries in mechanical systems. These concepts proved immensely useful in various branches of physics and engineering.

The Fields Institute Communications 73, titled "The Legacy of Jerry Marsden," is a collection of papers that pays tribute to his influential work. This special issue features articles written by notable mathematicians and physicists who have been influenced by Marsden's research. It explores the impact of his ideas on diverse areas such as classical mechanics, geometric control theory, and mathematical biology.

The publication showcases the profound impact Marsden had on the development of mathematics and highlights his ability to bridge theoretical mathematics with real-world applications. It celebrates his unique approach to problem-solving, which involved a deep understanding of the underlying physical principles and an elegant use of mathematical techniques.

The Legacy Lives On

Although Jerry Marsden passed away on September 21, 2010, his legacy continues to inspire and influence the field of mathematics. His work provided a

solid foundation for future researchers to build upon, and his contributions continue to impact various areas of mathematical science.

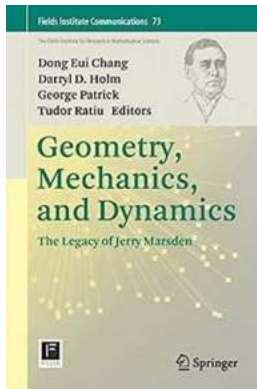
The Fields Institute Communications 73 serves as a testament to the enduring significance of Marsden's ideas. It is a valuable resource for mathematicians, physicists, and researchers seeking to explore the applications of geometric mechanics, control theory, and fluid dynamics. The publication not only honors Marsden's contributions but also showcases the vibrant research community that he helped cultivate.

As we reflect on Jerry Marsden's remarkable career, we recognize his profound impact on mathematics and his dedication to advancing scientific knowledge. His ability to connect different areas of mathematics with the physical world has left an indelible mark. Through his work and the tribute paid in the Fields Institute Communications 73, his legacy will continue to shape the future of mathematics for generations to come.

Jerry Marsden was a pioneer in mathematics, leaving a lasting impact on the field. His work in geometric mechanics, control theory, and fluid dynamics revolutionized these areas, and his contributions continue to shape the research landscape. The Fields Institute Communications 73 pays tribute to Marsden's influential career, showcasing his unique approach and the wide-ranging applications of his ideas. As we commemorate his legacy, we celebrate his invaluable contributions to mathematics and the inspiration he has provided to researchers around the world.

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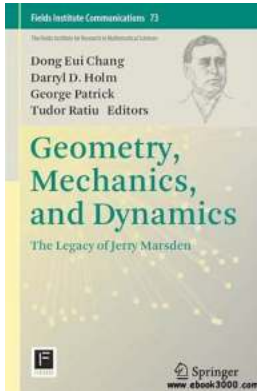


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This book illustrates the broad range of Jerry Marsden's mathematical legacy in areas of geometry, mechanics, and dynamics, from very pure mathematics to very applied, but always with a geometric perspective. Each contribution develops its material from the viewpoint of geometric mechanics beginning at the very foundations, introducing readers to modern issues via illustrations in a wide range of topics. The twenty refereed papers contained in this volume are based on lectures and research performed during the month of July 2012 at the Fields Institute for Research in Mathematical Sciences, in a program in honor of Marsden's legacy.

The unified treatment of the wide breadth of topics treated in this book will be of interest to both experts and novices in geometric mechanics. Experts will recognize applications of their own familiar concepts and methods in a wide variety of fields, some of which they may never have approached from a geometric viewpoint. Novices may choose topics that interest them among the various fields and learn about geometric approaches and perspectives toward those topics that will be new for them as well.



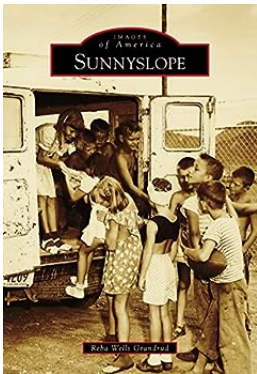
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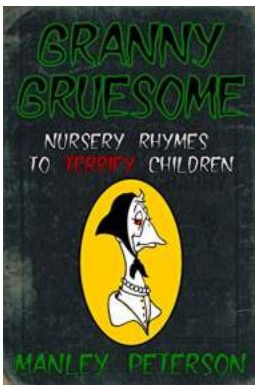
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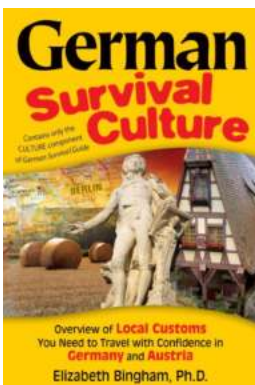
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