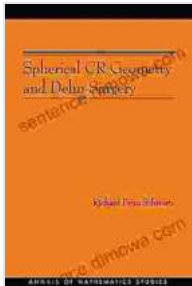


Spherical CR Geometry and Dehn Surgery: Unlocking the Secrets of Complex Manifolds



Spherical CR Geometry and Dehn Surgery (AM-165) (Annals of Mathematics Studies) by Richard Evan Schwartz

★★★★★ 5 out of 5

Language : English

File size : 4273 KB

Screen Reader : Supported

Print length : 200 pages

X-Ray for textbooks : Enabled



Embark on an intellectual odyssey into the realm of mathematics with 'Spherical CR Geometry and Dehn Surgery,' a groundbreaking work that unveils the intricacies of this captivating field. Published as part of the prestigious Annals of Mathematics Studies series, this volume stands as a testament to the profound insights and groundbreaking discoveries that have shaped our understanding of complex manifolds.

Delving into the Heart of Spherical CR Geometry

Spherical CR geometry, a branch of complex geometry, centers around the study of Cauchy-Riemann (CR) structures on spheres. These structures play a pivotal role in understanding the geometry of complex manifolds, providing a powerful tool for investigating their intrinsic properties. The book takes readers on an in-depth exploration of this subject, unraveling the fundamental concepts and theorems that underpin the field.

At the heart of spherical CR geometry lies the study of Levi-flat hypersurfaces, a special class of complex hypersurfaces that possess remarkable geometric properties. The book delves into the intricacies of these surfaces, examining their relationship to CR structures and their applications in understanding the topology and geometry of complex manifolds.

Unveiling the Power of Dehn Surgery

Dehn surgery, a fundamental technique in topology, involves cutting and pasting manifolds along prescribed curves. This powerful technique has provided groundbreaking insights into the structure and classification of 3-manifolds, offering a deep understanding of their intricate geometries.

The book masterfully weaves together spherical CR geometry and Dehn surgery, showcasing their profound interplay and far-reaching implications. Readers will gain a comprehensive understanding of how these two seemingly disparate fields converge, leading to groundbreaking discoveries that have reshaped our understanding of complex manifolds and 3-manifolds.

Exploring Cutting-Edge Research and Applications

'Spherical CR Geometry and Dehn Surgery' not only provides a comprehensive foundation for these fields but also ventures into the frontiers of current research. The book presents cutting-edge results and open problems, inviting readers to delve into the ongoing exploration of this dynamic subject.

The applications of spherical CR geometry and Dehn surgery extend far beyond the realm of pure mathematics. These techniques have found

practical applications in fields such as string theory, condensed matter physics, and knot theory, demonstrating their versatility and the wide-ranging impact they have on our understanding of the universe.

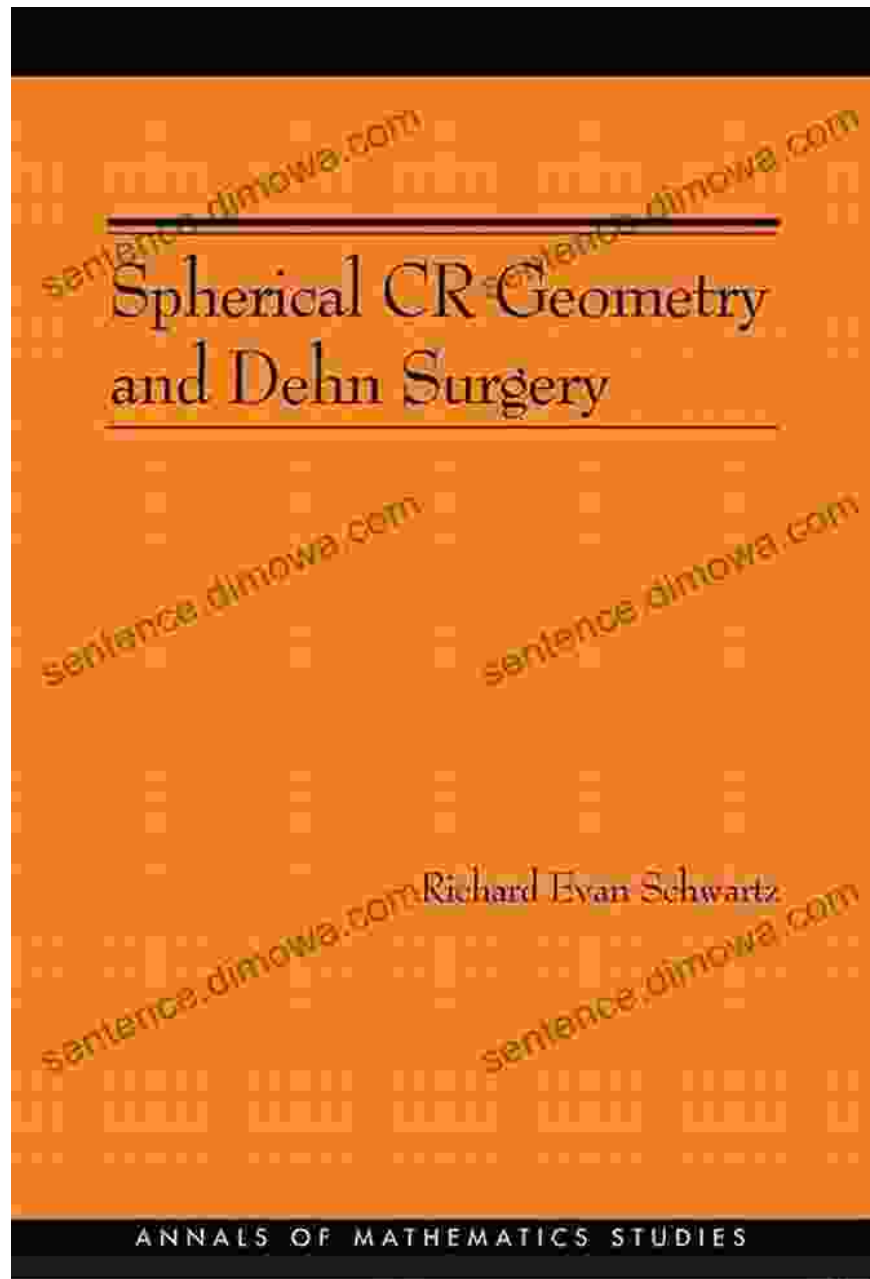
A Masterpiece for Mathematicians, Researchers, and Students

Written by leading experts in the field, 'Spherical CR Geometry and Dehn Surgery' is an invaluable resource for mathematicians, researchers, and advanced students alike. Its clear exposition, in-depth analysis, and comprehensive coverage make it an essential guide for anyone seeking to delve into the intricate world of complex manifolds and 3-manifolds.

Whether you are a seasoned researcher pushing the boundaries of knowledge or a student eager to embark on a mathematical journey, 'Spherical CR Geometry and Dehn Surgery' offers a wealth of insights and inspiration. Its pages hold the keys to unlocking the secrets of complex geometry and Dehn surgery, empowering you to explore the depths of this fascinating mathematical landscape.

Free Download Your Copy Today and Embark on an Intellectual Adventure

Do not miss this exceptional opportunity to acquire 'Spherical CR Geometry and Dehn Surgery' and delve into the captivating world of complex geometry. Free Download your copy today and embark on an intellectual adventure that will forever shape your understanding of mathematics and its profound implications.

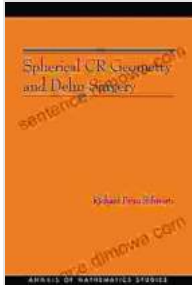


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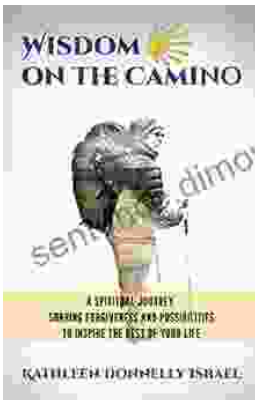
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