Infinite Dimensional Kähler Manifolds

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Infinite Dimensional
Kähler Manifolds

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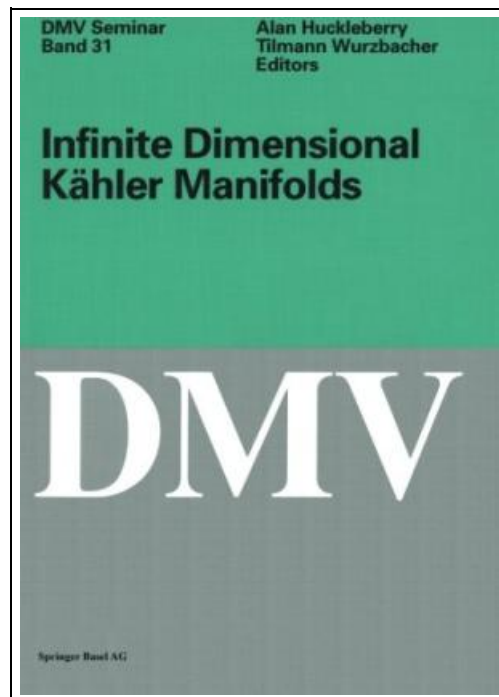Springer Basel AG

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Reviews

The book is great and fantastic. It is probably the most remarkable pdf i have got read through. You can expect to like the way the article writer compose this ebook.
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INFINITE DIMENSIONAL K&AUML;HLER MANIFOLDS

Book Condition: New. Publisher/Verlag: Springer, Basel | Infinite dimensional manifolds, Lie groups and algebras arise naturally in many areas of mathematics and physics. Having been used mainly as a tool for the study of finite dimensional objects, the emphasis has changed and they are now frequently studied for their own independent interest. On the one hand this is a collection of closely related articles on infinite dimensional Kähler manifolds and associated group actions which grew out of a DMV-Seminar on the same subject. On the other hand it covers significantly more ground than was possible during the seminar in Oberwolfach and is in a certain sense intended as a systematic approach which ranges from the foundations of the subject to recent developments. It should be accessible to doctoral students and as well researchers coming from a wide range of areas. The initial chapters are devoted to a rather selfcontained introduction to group actions on complex and symplectic manifolds and to Borel-Weil theory in finite dimensions. These are followed by a treatment of the basics of infinite dimensional Lie groups, their actions and their representations. Finally, a number of more specialized and advanced topics are discussed, e.g., Borel-Weil theory for loop groups, aspects of the Virasoro algebra, (gauge) group actions and determinant bundles, and second quantization and the geometry of the infinite dimensional Grassmann manifold. | to Group Actions in Symplectic and Complex Geometry.- I. Finite-dimensional manifolds.- 1. Vector space structures.- 2. Local theory.- 3. Global differentiable objects.- 4. A sketch of integration theory.- 5. Smooth submanifolds.- 6. Induced orientation and Stokes' theorem.- 7. Functionals on de Rham cohomology.- II. Elements of Lie groups and their actions.- 1. Introduction to actions and quotients.- 2. Examples of Lie groups.- 3. Smooth actions of Lie groups.- 4. Fiber bundles.- III. Manifolds with additional...

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