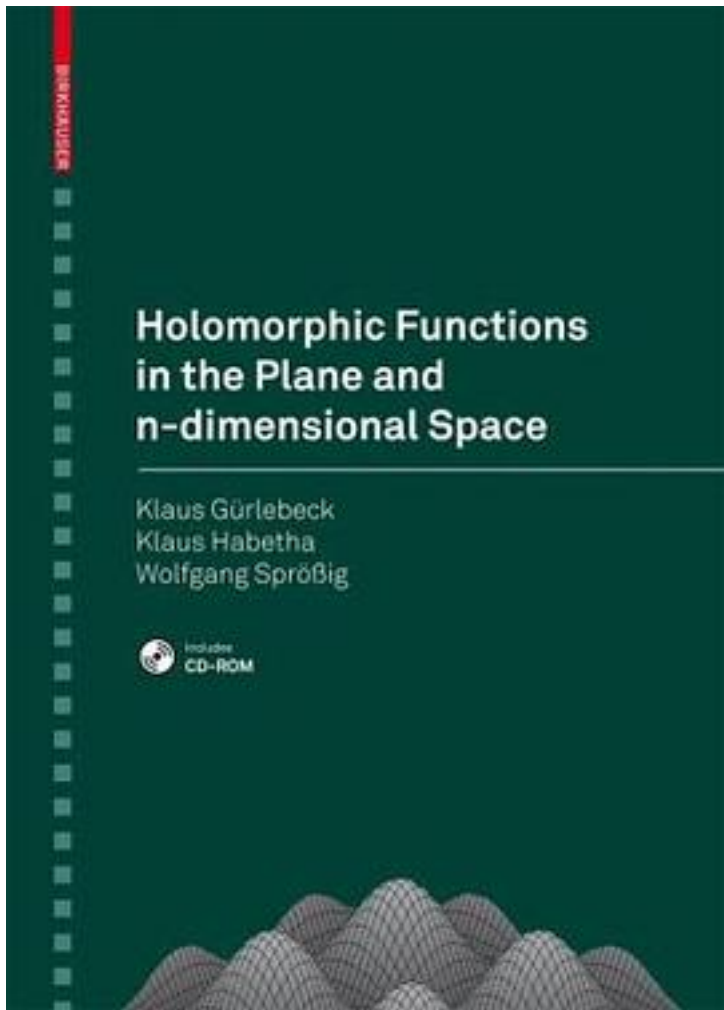


Holomorphic Functions in the Plane and n-Dimensional Space



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Complex analysis nowadays has higher-dimensional analogs: the algebra of complex numbers is replaced then by the non-commutative algebra of real quaternions or by Clifford algebras. During the last 30 years the so-called quaternionic and Clifford or hypercomplex analysis successfully developed to a powerful theory with many applications in analysis, engineering and mathematical physics. This textbook introduces both to classical and higher-dimensional results based on a uniform notion of holomorphy. Historical remarks, lots of examples, figures and exercises accompany each chapter. The enclosed CD-ROM contains an extensive literature database and a Maple package with comments and procedures of tools and methods explained in the book.

作者介绍:

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