Constructive Approximation on the Sphere: With Applications to Geomathematics (Numerical Mathematics and Scientific Computation)

By W. Freeden, T. Gervens, M. Schreiner

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Geomathematics offers an useful means of assimilating and assessing the ever increasing flow of data from geoscientific and satellite sources, as well as an objective basis for the interpretation, classification, and solution of problems. This volume provides the necessary foundation in sphere oriented mathematics for graduate students and researchers interested in any of the diverse topics of constructive approximation in this area. Aspects of approximation by spherical harmonics, such as spherical splines and wavelets, are discussed in detail, and methods for handling different types of data, such as scalar, vectorial, and tensorial, are each considered in turn. This book presents the most up-to-date structures and methods for the efficient handling of sophisticated measurements and observations, thus reducing time and costs.

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'This book provides an excellent modern resource for all workers interested in approximation on spherical geometrics ... it contains a very complete treatment of approximation techniques ... This book fills a large gap in the literature by giving a modern treatment of spherical approximation
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