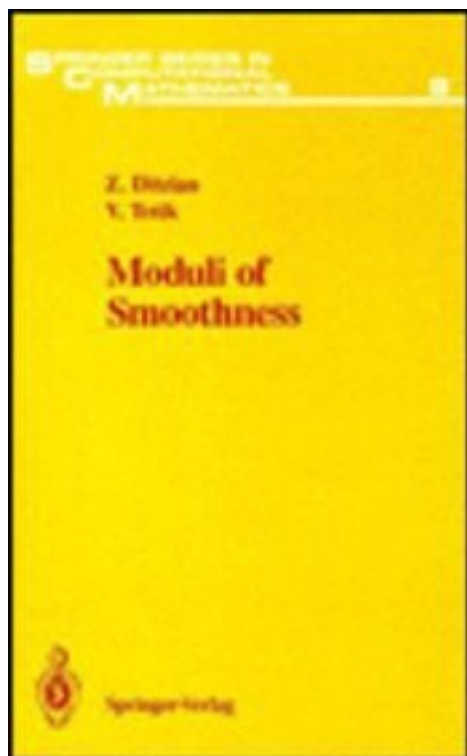


Moduli of Smoothness



[Moduli of Smoothness_ 下载链接1](#)

著者:Ditzian, Zeev/ Totik, V.

出版者:Springer Verlag

出版时间:1987-10

装帧:HRD

isbn:9780387965369

The book introduces a new way of measuring smoothness. The need for this new concept arises from the failure of the classical moduli of smoothness to solve some basic problems, such as characterizing the behaviour of best polynomial approximation in L_p -1,1 . The new modulus, which has a simple form, can also be described as a Peetre K functional between an L_p space and a weighted Sobolev space. Connections between interpolation of spaces and approximation theory are utilized in applying the modulus of smoothness. The applications include best (weighted) polynomial approximation on a finite interval, characterization of the rate of

approximation given by classical operator processes such as Bernstein, Kantorovich, Szasz-Mirakjan, and Post-Widder operators, Freud-type weighted polynomial approximation on infinite intervals with exponentially decreasing weights and polynomial approximation in several variables. Special emphasis is placed on the computability aspect of the moduli. The results are new, and complete proofs are given. It is hoped that the book will be of interest and useful for mathematicians working in approximation theory, interpolation of spaces, numerical analysis and real analysis.

作者介绍:

目录:

[Moduli of Smoothness_ 下载链接1](#)

标签

评论

[Moduli of Smoothness_ 下载链接1](#)

书评

[Moduli of Smoothness_ 下载链接1](#)