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Interpolation And Sampling In Spaces

This book contains the latest developments in a central theme of research on analysis of one complex variable. The material is based on lectures at the University of Michigan. The exposition is about understanding the geometry of interpolating and sampling sequences in classical spaces of analytic functions. The subject can be viewed as arising from three classical topics: Nevanlinna-Pick ...

Interpolation and Sampling in Spaces of Analytic Functions

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Interpolation and Sampling in Spaces of Analytic Functions

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space: a sequence of lattice points is sampling if and only if its density is strictly larger than n , and it is interpolating if and only if its density is strictly smaller than n .

SAMPLING AND INTERPOLATION IN BARGMANN-FOCK SPACES OF ...

Abstract. In this paper we give new proofs of some theorems due to Seip, Seip-Wallstén and Lyubarskii-Seip on sequences of interpolation and sampling for spaces of analytic functions that are square integrable with respect to certain weights.

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Interpolation and sampling in small Bergman spaces - CORE pling sets, namely index sets I that are sampling sets for any

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bandlimited space B_J with $|J| = |I|$. That is, I is universal if the sampling pattern specified by I can be used for interpolation of signals from any B_J . Universal sampling sets were used in [4] for multicoset sampling and in [5] in connection with compressed sensing. Here our central result

Discrete Sampling and Interpolation: Universal Sampling ...
In the field of mathematical analysis, an interpolation space is a space which lies "in between" two other Banach spaces. The main applications are in Sobolev spaces, where spaces of functions that have a noninteger number of derivatives are interpolated from the spaces of functions with integer number of derivatives.

Interpolation space - Wikipedia

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The linear interpolation is a method of fitting a curve using linear polynomials and it helps us to create a new data points but these points lie within the range of the original values for which the linear interpolation is done. Sometimes these values may go a little far from the original values but not too far.

Based on a series of six lectures given by the author at the University of Michigan, this book is intended as an

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introduction to the topic of interpolation and sampling in analytic function spaces. The three major topics covered are Nevanlinna-Pick interpolation, Carleson's interpolation theorem, an

The classical sampling problem is to reconstruct entire functions with given spectrum S from their values on a discrete set L . From the geometric point of view, the possibility of such reconstruction is equivalent to determining for which sets L the exponential system with frequencies in L forms a frame in the space $L^2(S)$. The book also treats the problem of interpolation of discrete functions by analytic ones with spectrum in S and the problem of completeness of discrete translates. The size and arithmetic structure of both the spectrum S and the discrete set L play a crucial role in these problems. After an elementary introduction, the authors give a new presentation of classical results due to Beurling, Kahane, and Landau. The main part of the book focuses on recent progress in the area, such as construction of universal sampling sets, high-dimensional and non-analytic phenomena. The reader will see how methods of harmonic and complex analysis interplay with various important concepts in different areas, such as Minkowski's lattice, Kolmogorov's width, and Meyer's quasicrystals. The book is addressed to graduate students and researchers interested in analysis and its applications. Due to its many exercises, mostly given with hints, the book could be useful for undergraduates.

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With this text, Jonathan Partington explores the application of mathematical analysis to problems of interpolation and engineering, including systems identification, and signal processing and sampling.

This book first rigorously develops the theory of reproducing kernel Hilbert spaces. The authors then discuss the Pick problem of finding the function of smallest H^∞ norm that has specified values at a finite number of points in the disk. Their viewpoint is to consider H^∞ as the multiplier algebra of the Hardy space and to use Hilbert space techniques to solve the problem. This approach generalizes to a wide collection of spaces. The authors then consider the interpolation problem in the space of bounded analytic functions on the bidisk and give a complete description of the solution. They then consider very general interpolation problems. The book includes developments of all the theory that is needed, including operator model theory, the Arveson extension theorem, and the hereditary functional calculus.

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