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Titolo          Extensions of Positive Definite Functions [e-book] : Applications and Their Harmonic Analysis / by Palle Jorgensen, Steen Pedersen, Feng Tian

Pubbl/distr/stampa          Cham : Springer International Publishing, 2016

ISBN          9783319397801

Descrizione fisica          1 online resource

Collana          Lecture Notes in Mathematics, 0075-8434 ; 2160

Classificazione          AMS 42-02
AMS 47-02
AMS 47B65
LC QA403-403

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Disciplina          515.785

Soggetti          Topological groups
Lie groups
Harmonic analysis
Fourier analysis
Functional analysis
Probabilities
Mathematical physics

Lingua di pubblicazione          Inglese

Formato          Materiale a stampa

Livello bibliografico          Monografia

Sommario/riassunto          This monograph deals with the mathematics of extending given partial data-sets obtained from experiments; Experimentalists frequently gather spectral data when the observed data is limited, e.g., by the precision of instruments; or by other limiting external factors. Here the limited information is a restriction, and the extensions take the form of full positive definite function on some prescribed group. It is therefore both an art and a science to produce solid conclusions from restricted or limited data. While the theory of is important in many areas of pure and applied mathematics, it is difficult for students and for the novice to the field, to find accessible presentations which cover all relevant

points of view, as well as stressing common ideas and interconnections. We have aimed at filling this gap, and we have stressed hands-on-examples