



Time-Frequency Analysis and Synthesis of Linear Signal Spaces: Time-Frequency Filters, Signal Detection and Estimation, and Range-Doppler Estimation ... Series in Engineering and Computer Science)

Franz Hlawatsch

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Linear signal spaces are of fundamental importance in signal and system theory, communication theory, and modern signal processing.

This book proposes a time-frequency analysis of linear signal spaces that is based on two novel time-frequency representations called the 'Wigner distribution of a linear signal space' and the 'ambiguity function of a linear signal space'.

Besides being a useful display and analysis tool, the Wigner distribution of a linear signal space allows the design of high-resolution time-frequency filtering methods. This book develops such methods and applies them to the enhancement, decomposition, estimation, and detection of noisy deterministic and stochastic signals. Formulation of the filtering (estimation, detection) methods in the time-frequency plane yields a direct interpretation of the effect of adding or deleting information, changing parameters, etc. In a sense, the prior information and the signal processing tasks are brought to life in the time-frequency plane.

The ambiguity function of a linear signal space, on the other hand, is closely related to a novel maximum-likelihood multipulse estimator of the range and Doppler shift of a slowly fluctuating point target - an estimation problem that is important in radar and sonar. Specifically, the ambiguity function of a linear signal space is relevant to the problem of optimally designing a set of radar pulses.

The concepts and methods presented are amply illustrated by examples and pictures. *Time-Frequency Analysis and Synthesis of Linear Signal Spaces: Time-Frequency Filters, Signal Detection and Estimation, and Range-Doppler Estimation* is an excellent reference and may be used as a text for advanced courses covering the subject.

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and Computer Science) is an unordinary book that the inside of the book waiting for you to snap the idea but latter it will surprise you with the secret it inside. Reading this book close to it was fantastic author who else write the book in such amazing way makes the content inside of easier to understand, entertaining method but still convey the meaning fully. So , it is good for you for not hesitating having this any more or you going to regret it. This unique book will give you a lot of gains than the other book include such as help improving your talent and your critical thinking method. So , still want to hesitate having that book? If I ended up you I will go to the guide store hurriedly.

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