



Fundamentals of Digital Signal Processing

Arild Lacroix

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This book not only deals with the fundamental aspects of Digital Signal Processing. Moreover, it provides an in-depth presentation of the state of the art in the processing of one-dimensional signals. It is written for students on a graduate level, as well as for scientists and research engineers. The first part covers discrete time signals. The fundamental relations and theorems of the Z-transform are explained and examples are provided as illustration. Different signal types such as deterministic and stochastic, periodic and transient, and single and multirate signals are considered. In the second part discrete time systems are investigated. Topics such as impulse response, system function, and frequency response are derived for linear time-invariant systems. Recursive and nonrecursive systems, linear phase, and allpass systems are analysed in detail.

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