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Linear-Phase Bernstein Filter for Equalized the Distorted Chrominance

By Vanisa Chutthavong

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Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - This book is primarily intended for bachelor students, master students, and researchers who wish to extend their studies to apply Bernstein polynomial for signal and image processing, audio and video system, and communication system. The Bernstein polynomial theory is presented and proved very helpful for students preparing to utilize the applications. It is also intended for the researchers or engineers. This book emphasized the video equalizer based on Bernstein polynomial for applying to the color television system. It is mainly concerned with the PAL system. The following topics serve to unify the discussion. Firstly, video test signals: square waveform, sine-squared pulse, pulse and bar waveform, modified pulse and bar, modulated 20T sine-squared pulse. Secondly, the measurement and the effect of the linear distortions: the TV picture is demonstrated with incorrect color saturation and hue that is compared with the distorted modulated 20T sine-squared pulse test signal. Thirdly, Bernstein polynomial and Bernstein filter: theory, concept, design. Finally, gain equalizer: design procedures, realized and implemented the prototype of the gain chrominance equalizer. 100 pp. Englisch.



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