



A Guide Through Waveform Analysis

By Michael Leitner

GRIN Verlag. Paperback. Condition: New. 86 pages. Dimensions: 8.3in. x 5.8in. x 0.2in. Masters Thesis from the year 2003 in the subject Computer Science - Theory, grade: sehr gut, University of Graz, language: English, abstract: Radio astronomical receivers are spectral analyzing devices capable to resolve the acquired signal in terms of time and frequency resolution. For fast fluctuating radio bursts, like Jovian S-bursts these receivers suffer from their low spectral resolution. Further on, phasing information is generally not contained in common spectral analysis. The development of the so-called waveform receiver (WFR) is a successful step further being able to get informations on S-burst substructures. By capturing the waveform rather than the derived dynamic spectrum, post processing methods allow various methods of detailed signal substructure analysis. Especially the method of wavelet transformation turns out to be very effective, when dealing with intrinsic signal information. This master thesis is a deep in detail description of the waveform receiving system. It starts with an overview chapter, describing the kind of scientific work possible with this system. Chapter 2 describes the hardware and software configuration of the whole system. Chapter 3 is a user manual and shows how to operate the system from installation, observation...



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