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Robust Composite Clock Using Modified Kalman Filtering

By Matthias Süß

Shaker Verlag Mrz 2014, 2014. Taschenbuch. Condition: Neu. Neuware - Main focus of a global navigation satellite system (GNSS), such as the European System Galileo or the GPS operated by the United States is the generation of a highly stable and robust system time and the determination of the time offsets relative to the system time for each satellite clock. With the application of the so-called clock offset estimates or parameters, pseudo range measurements are corrected to mitigate the time related error of each satellite clock. Evidently, any failure or mal-functioning of the system time affects the synchronization performance. It is therefore a key requirement of a GNSS to generate a robust system time. Conceptually, there are two approaches to be distinguished to establish a system time: the master and the composite clock approach. Contrary to the master clock approach, in which one atomic clock physically defines the system time, a composite clock, studied within this work, establishes its system time as a kind of weighted average out of the participating clock offsets. Using a composite clock, a clock offset affected by an operational event can be excluded from the ensemble defining the average. Within the thesis the design and...



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