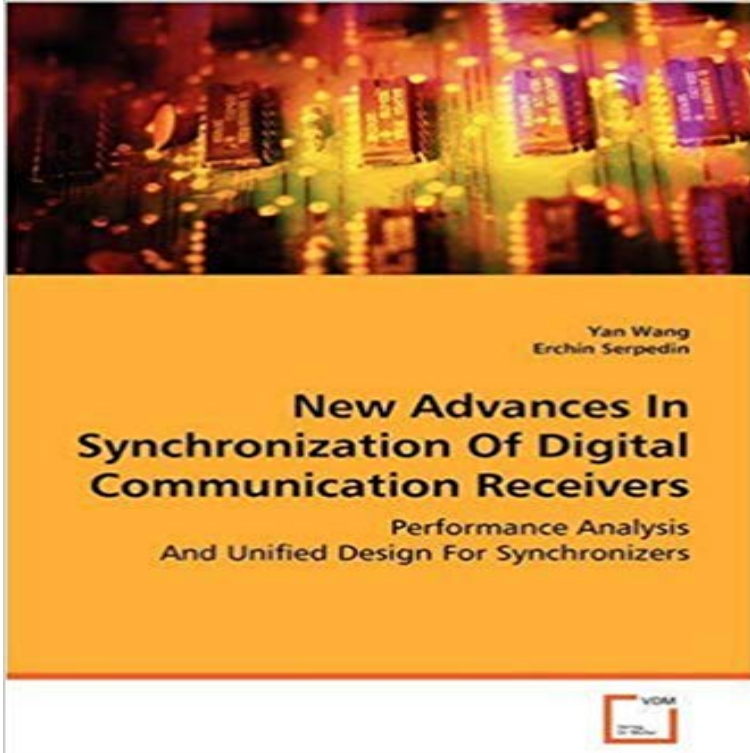


# New Advances In Synchronization Of Digital Communication Receivers: Performance Analysis And Unified Design For Synchronizers



Synchronization is a challenging but critical task in communications. Over the last two decades, extensive research work has been carried out to design nondata-aided timing recovery and carrier synchronization schemes. Despite their importance and spread use, most of the existing blind algorithms are derived in an ad-hoc manner without exploiting optimally the entire available statistical information. And also, in most cases their performance can only be evaluated by hardware or computer simulations, the rigorous and complete performance analysis has not been done. This book is to develop several novel signal processing frameworks that enable to analyze and improve the performance of the existing timing recovery and carrier synchronization algorithms. As byproducts of this analysis, unified methods for designing new computationally and statistically efficient blind feedforward synchronizers are developed.

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