

Adaptive And Iterative Signal Processing In Communications

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Describes the fundamental theory and practical aspects of using ASP, and ISP, to improve receiver performance. Adaptive signal processing (ASP) and iterative signal processing (ISP) are important techniques in improving receiver performance in communication systems. Using examples from practical transceiver designs, this book describes the fundamental theory and practical aspects of both methods, providing a link between the two where possible. The first two parts of the book deal with ASP and ISP respectively, each in the context of receiver design over intersymbol interference (ISI) channels. In the third part, the applications of ASP and ISP to receiver design in other interference-limited channels, including CDMA and MIMO, are considered, the author attempts to illustrate how the two techniques can be used to solve problems in channels that have inherent uncertainty. Containing illustrations and worked examples, this book is suitable for graduate students and researchers in electrical engineering, as well as practitioners in the telecommunications industry. Further resources for this title are available online at cambridge.org/9780521864862. EAN/ISBN : 9780511254925 Publisher(s): Cambridge University Press
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