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volumes described the underlying theory of  
estimation and detection algorithms. In con-  
trast, the current volume addresses the practice of  
converting this theory into soft-

Fundamentals of statistical signal processing in ...  
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treats signals as stochastic processes, utilizing their

statistical properties to perform signal processing tasks. Statistical techniques are widely used in signal processing applications.

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Signal processing - Wikipedia

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Anne Ferr é ol , Pascal Larzabal , Mats Viberg, Statistical analysis of the MUSIC algorithm in the presence of modeling errors, taking into account the resolution probability, IEEE Transactions on Signal Processing, v.58 n.8, p.4156-4166, August 2010

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Baldi M, Chiaraluce F, Garelli R, Polano M and Valentini M (2010) Simple statistical analysis of the impact of some nonidealities in downstream VDSL with linear precoding, EURASIP Journal on Advances in Signal Processing, 2010, (1-14), Online publication date: 1-Feb-2010.