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Bernard Widrow (born
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U.S. professor of
electrical engineering at

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Stanford University. He is the co-inventor of the Widrow–Hoff least mean squares filter (LMS) adaptive algorithm with his then doctoral student Ted Hoff. The LMS algorithm led to the ADALINE and MADALINE artificial neural networks and to the backpropagation technique.

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Bernard Widrow is
Professor Emeritus in
the Electrical
Engineering Department
at Stanford University.
His research focuses on
adaptive signal
processing, adaptive
control systems,
adaptive neural

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His long-term ambition, to complete a textbook on adaptive signal processing, was recently realized. The book was co-authored with Samuel Steams and published in 1985 by Prentice-Hall. Bernie Widrow is one of those individuals for whom many colleagues have both respect and affection.

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Hall) and Adaptive Inverse Control (Prentice-Hall). He is the author or coauthor of Quantization Noise (Cambridge University Press, June 2008). Dr. Widrow is a Fellow of American Association for the Advancement of Science (AAAS).

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1960's, it was not until the publication of the pioneering books by Honig and Messerschmitt in 1984 and Widrow and Stearns in 1985 that the field of adaptive signal processing began to emerge as a distinct discipline in its own right. Since 1984 many new books have been published on adaptive

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processing, which
serve to define what we
will refer to throughout
this book as

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with basic architectures
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Most of the existing textbooks on adaptive signal processing focus on finite impulse response (FIR) filter structures that are trained with strategies based on steepest descent optimization, or more precisely, the least mean square (LMS) approximation to steepest descent. While

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