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Signal Processing - Journal - Elsevier

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Adaptive filter - Wikipedia

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Array processing - Wikipedia

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Richard Lyons is a Contracting Systems Engineer and Lecturer at Besser Associates, Mountain View, Calif. He has written over 30 articles and conference papers on DSP topics, and authored Amazon.com's top selling DSP book "Understanding Digital Signal Processing, 3rd Ed. He served as an Associate Editor at IEEE Signal Processing Magazine, for nine years, where he created and edited the "DSP Tips ...

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Fig. 1 shows a long degradation process of an impending fault in a machine, where an initial defect continues to proliferate, and eventually reaches a critical condition that causes the machine failure. We can conceptualize the task of diagnostics as an in-depth exploration of the failure to identify the leading cause after it has occurred, while prognostics is to investigate the problem ...

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