



# Quantization Noise: Roundoff Error in Digital Computation, Signal Processing, Control, and Communications

*Bernard Widrow, István Kollár*

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## **Quantization Noise: Roundoff Error in Digital Computation, Signal Processing, Control, and Communications** Bernard Widrow, István Kollár

If you are working in digital signal processing, control or numerical analysis, you will find this authoritative analysis of quantization noise (roundoff error) invaluable. Do you know where the theory of quantization noise comes from, and under what circumstances it is true? Get answers to these and other important practical questions from expert authors, including the founder of the field and formulator of the theory of quantization noise, Bernard Widrow. The authors describe and analyze uniform quantization, floating-point quantization, and their applications in detail. Key features include: • Analysis of floating point round off • Dither techniques and implementation issues analyzed • Offers heuristic explanations along with rigorous proofs, making it easy to understand 'why' before the mathematical proof is given.

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