



# The Sound of Silence: Lowest-Noise RIAA Phono-Amps: Designer's Guide

*Burkhard Vogel*



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There is a wide field of tasks left that can only be satisfactorily attacked with the help of old-fashioned analogue technology, and one of the most important are amplifiers for analogue signals. The strongly expanded content of the second edition of "the sound of silence" leads to affordable amplifier design approaches which will end up in lowest-noise solutions not far away from the edge of physical boundaries set by room temperature and given cartridges - thus, fully compatible with very expensive so called "high-end" or "state-of-the-art" offers on today markets - and, from a noise point of view in most cases outperforming them!

With easy to follow mathematical treatment it is demonstrated as well that theory is not far away from reality. Measured SNs will be found within 1dB off the calculated ones and deviations from the exact amplifier transfer won't cross the  $\pm 0.1$ dB tolerance lines. Additionally, the book presents measurement set-ups and results. Consequently, comparisons with measurement results of test magazine will soon become easier to perform.

This new edition includes a new chapters about reference levels, Noise in Amp Input sections, Humming Problems, and much more.



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