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Volume 78, 1995 - Issue 4

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# Measurement and modelling of operational amplifier power supply rejection

M. E. BRINSON & D. J. FAULKNER

Pages 667-678 | Received 15 Aug 1994, Accepted 26 Oct 1994, Published online: 06 Jul 2010

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<https://doi.org/10.1080/00207219508926200>

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## Abstract

A new approach to the measurement of operational amplifier power supply rejection, based on the measurement of the power supply injected signal gain of a high-gain differential amplifier configuration, is presented. Measured results for 741 and pin-compatible operational amplifiers are tabulated. A new SPICE macromodel which models operational amplifier power supply rejection characteristics is described. Design equations are provided to extract macromodel parameters from manufacturer's data sheets or measured power supply rejection data. Good agreement has been found between measured operational amplifier power supply rejection characteristics and simulated circuit performance based on the new macromodel.

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