

Re: Current source design (tricky?)

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-03/2114.html>

From: Fred Bloggs (*nospam_at_nospam.com*)

Date: 03/12/05

Date: Sat, 12 Mar 2005 12:25:46 GMT

Larry Brasfield wrote:

> "Terry Given" <my_name@ieee.org> wrote in message
> news:qypYd.8841\$1S4.942601@news.xtra.co.nz...

>

>>Larry Brasfield wrote:

>

> ...

>

>>>A number of op-amps on the market today are
>>>very tolerant of capacitive loading because they
>>>have a feature whereby that loading causes the
>>>gain-bandwidth of the part to drop, almost in
>>>proportion to the loading, such that the extra
>>>pole remains far enough above the unity gain
>>>crossover frequency that stability is preserved.
>>>The LM8261 suggested by Mr. Hill is a good
>>>example of this class.

>>

>>I have been bitten quite badly by a similar "feature" in
>>the LM6134 (its a slew-rate modification).

>

>

> The feature I mentioned above works by causing the
> effective value of an internal capacitance to increase.
> So it changes both the linear small-signal response
> (less GBW) and the slew limiting (slower).

Nah- you're full-o-shyte! The capacitive loading decreases the effective internal capacitance due to Miller effects because it reduces the gain. Even a moron like you should realize that less gain means less Miller effect. You are a pretentious little piss-ant bs mouthpiece who has never built anything in his life.

>

> The adaptive slewing feature that National (sort
> of) describes in the LM6134 datasheet is not the
> same thing at all. It operates by increasing the

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- > *amount of current available for slewing under*
- > *certain large signal input conditions.*

Really– S.R. drops to 0V/us at 10n– and settling time goes to hell–
someplace you should consider going too, permanently.

- >
- > *As for the problem you had with it, I would not*
- > *deem it a biting feature so much as a reason to*
- > *not use it without understanding it better. I will*
- > *say, however, that mode changing circuitry for*
- > *the alleged benefit of large signal conditions is*
- > *something that usually gives me the willys.*
- >

What a crock of pretentious PISS....