
Subject: Re: This is extraordinarily cool

Posted by [Damir](#) on Sun, 24 Apr 2005 17:43:18 GMT

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Although PSpice ("OrCad"-for example) is almost "standard", I like "Circuit Maker" (3f4/3f5 "spice engine") better and used it every day in the last few years. Although not without its imperfections (transformer models, some "too simple" models, etc.) it's easy to use and understand. It has some tube models, and other can be found on the net ("Duncan amp pages" - models, links, explanations, list of other free "Spice" programs...). Great tool for learning - you have virtual multimeter, oscilloscope, bode plot (frequency AC analysis), Fourier-analysis, etc., and you can see "what's goin` on" in every part of the circuit. Of course, your analysis is that good like the models, but I found that even the simplest triode models, based on the expression: $I_a = K(\mu U_{gk} + U_{ak})^{1,5}$ are "good enough" for DC and some AC "results". Of course, you can't expect accurate results for distortion analysis ("optimistic" results, because of "more ideal" $U_a/I_a/U_g$ "lines"). All in all, great - and free program...
