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Subject: Re: Damping factor - SE vs. PP

Posted by [Damir](#) on Fri, 14 Oct 2005 06:11:34 GMT

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We are talking about dynamic anode resistance. It is increment change of alternating anode voltage "through" increment change of (inphase) anode current. Static anode characteristics are not ideal, and because of curvature, we have "added" second, third and other higher order "terms" to the simple  $i_a = u_a / r_p$ . Contribution of third and other odd-order "terms" to the fundamental expression changes the simple static  $r_p = u_a / i_a$ . My point is that with typical use of SE amp (small power, max. power only on short peaks), we have rel. small  $u_a$ , rel. small contribution of odd-order distortion, and we can say that  $r_p = u_a / i_a$ , or dynamic  $r_p$  is about static  $r_p$ , found graphically at the operating point.

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