Subject: Spice revisited
Posted by dbeardsl on Mon, 11 Mar 2002 20:16:23 GMT
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When generating a spice model for a linear motor, how do you calculate what to use to emulate the mechanical reactance.i.e. For the Beta 12. mechanical reactance is 50hz Q is 5.82. How would you calculate the appropriate component values?

Subject: Re: Spice revisited
Posted by Wayne Parham on Mon, 11 Mar 2002 21:47:16 GMT
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To calculate the equivalent LCR electrical circuit for mechanical resonance, find Zmax, and set the shunt resistance equal to that. Then find inductance and capacitance values equal to the (Zmax) resistance divided by the Q at the resonant frequency.

Subject: Re: Thanks! (nt)
Posted by dbeardsl on Mon, 11 Mar 2002 21:57:08 GMT
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nt