

## Re: square wave harmonic theory (time domain)

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2007-06/msg00212.html>

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- *From:* Jim Thompson <[To-Email-Use-The-Envelope-Icon@xxxxxxxxxxxxxxxx](mailto:To-Email-Use-The-Envelope-Icon@xxxxxxxxxxxxxxxx)>
  - *Date:* Fri, 01 Jun 2007 18:42:17 -0700
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On Fri, 01 Jun 2007 17:37:35 -0700, John Larkin  
<[jjlarkin@xx](mailto:jjlarkin@xx)> wrote:

On Fri, 01 Jun 2007 16:55:38 -0700, Don Lancaster <[don@xxxxxxxx](mailto:don@xxxxxxxx)>  
wrote:

MooseFET wrote:

In the case of the bell, the bell selects the frequencies near its resonance from the input. If the input is a repeated waveform such as striking at a constant rate, this input only has harmonics of the strike rate in it. Since the bell can't create new frequencies, it must select from those harmonics.

Not even wrong.

The response is the convolution of the forcing function against the natural one.

Not if it's an oscillator, and not if it's nonlinear. A pipe organ is both.

John

Uh? You're tip-toeing thru the tulips there, John. In an oscillator the forcing function IS the oscillator non-linearity.

Don't get me started on Lyopanov ;-)

...Jim Thompson

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