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Subject: Measurements

Posted by [Manualblock](#) on Thu, 27 Jan 2005 20:30:31 GMT

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Can a measurement system tell accurately whether the device being measured is a Stradivarius or a run-of-the mill violin? Assuming identical initial conditions.

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Subject: Well of course it can

Posted by [adavis464](#) on Thu, 27 Jan 2005 22:14:48 GMT

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You can detect it using the inverse phase inverter modulator or sum thin like that.

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Subject: Re: Well of course it can

Posted by [Manualblock](#) on Thu, 27 Jan 2005 23:34:41 GMT

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I have one of those in my junk box; I think. Is it round?

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Subject: Re: Well of course it can - Actually, yes

Posted by [wunhuanglo](#) on Fri, 28 Jan 2005 11:02:23 GMT

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It's a long story, and I don't have all the details. A buddy of mine who's professional expertise includes mechanical vibration spectrum analysis and is also an experienced woodworker was asked by a friend to fix his violin. My buddy had absolutely no idea about how to do it, but he likes a challenge. He downloaded a spectral plot of a Stradivarius from some web site and then compared the response to the violin he'd been given to fix. He then poked and prodded until he found something amiss - he knew he'd found (and fixed) the problem when the two plots were very similar (some glue joint that had come loose, I think.) Actually, there's not too much old Jim hasn't tried. If you're interested in how he fixed the violin (or how to carve stone, cast gold, design a 3500 HP pump, paint flowers or build a wooden canoe) I'm pretty sure he be delighted to tell you about it.

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Subject: Sorry, I messed up the link  
Posted by [wunhuanglo](#) on Fri, 28 Jan 2005 11:04:46 GMT  
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Jim Corley  
Jim Corley

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Subject: Re: Sorry, I messed up the link  
Posted by [akhilesh](#) on Fri, 28 Jan 2005 13:27:26 GMT  
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Sounds like a renaissance man! -akhilesh

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Subject: Re: Measurements  
Posted by [akhilesh](#) on Fri, 28 Jan 2005 13:28:42 GMT  
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I think so. A strad will have different frequency plots, different waterfall plots, and different distortion numbers. If they ewer identical between two violins, I think you have the same violins, sonically speaking. -akhilesh

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Subject: Neat site!  
Posted by [Wayne Parham](#) on Sat, 29 Jan 2005 12:13:19 GMT  
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What an interesting guy. I like the yearly engineering contest he sponsors, that's neat. He's a very good artist too. Thanks for the link!

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Subject: Re: Well of coarse it can - Actually, yes  
Posted by [hurdy\\_gurdyman](#) on Mon, 31 Jan 2005 21:36:06 GMT  
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I've repaired hundreds of violins. The only test equipment needed is your ears. Violins are actually

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quite easy to repair and usually not hard to track down the problem. It's only wood and glue. Dave

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