On the time of contact between the hammer and string on a piano.

S. Converse - Physical modelling of the piano string scale

Description: -
-On the time of contact between the hammer and string on a piano.
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Notes: From American Journal of Science.
This edition was published in 1886

Tags: #The #Structure #of #the #Piano:Design #of #the #Strings #Enriches #the #Sound

Educate the ignorant: squaring piano hammers?

It seems to me that a piano technology school should have a few of these type of experiments lying around. One cent is equal to the difference in frequency for one hundredth of a semitone interval on the equal temperament scale.

How the Piano Action Works

They attempted to fit the upper portion of the force-time curve with a half-cycle sine curve. Hammers that are square to their line of travel will strike each tenor and bass string at a different time or distance in their length.

Commuted Piano Synthesis

With one of the strings tuned to A at 440 hertz, example one has the other two strings tuned 1. The amount of difference you hear in the tone may depend on where you are sitting in relation to the loudspeakers.

The Structure of the Piano:Design of the Strings Enriches the Sound

This causes stress and eventually looseness in the hammer shanks. The piano hammer as a nonlinear spring The piano hammer as a nonlinear spring

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