Experimental Design and Laboratory Notebook

CH 801
September 28, 2004

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April 21. Resonator (9) had the flat defect in the face fitted to it same as usual with (11). N of estimations = 2/3 (the resonance was very well defined)

\[ n = \frac{\sqrt{16.39 \times 3.14}}{6.28 \times 4 \times 16} \sqrt{1245 (\frac{1}{4} + 3.14 \frac{8}{16})} \]

\[ = \frac{1123 \times 9.3}{6.28 \times 16} \sqrt{16.39 \times 3.14} \quad 1245 \times 0.92 \hat{=} 219.4 \]

The error is less than half a centimeter. The difficulty of making accurate measurements is increased when the errors are high.

**Double Resonance.** Two indicators must be cemented together. The resonance observed by the tube filled to one of them to deal. High note = 304

Low note = 213

\[
\text{drum after 60 sec end} = \frac{65}{32} \text{ in.} \\
\text{thick mass per area} = \frac{15}{10} \text{ in.}^2
\]
Edison in the Chemistry Lab Writing in His Notebook about Rubber Experiments; West Orange, NJ; December 1928.
To prove $88114244437 \equiv x \pmod{N_2}$ is a prime

$3^{N_2-1} \equiv 1 \pmod{N_2}$

$N_2 - 1 = 35558 \times 2489947$

$3^{35558} = 88114244437 \equiv 1 \pmod{N_2}$

$(3, r-1) = 2$, hence $N_2 = \text{prime}$ since 2 is a factor of 3, and the form $2 + 1$.

Hence $N_2 = \text{prime}$

Hence $N$ is a prime number

Oct. 23, 1932
Dear Father,

After a very long time and during the course of 12 days, I arrived at the place after getting over all sorts of winds from the sea. One night, I heard the church bell ringing when I was at the edge of the town for two days and only then did I enter the church, as well as after thinking over part of our discussion on Sunday evening. Then we both

also arrived at a church and on the 2nd day went to the church. We went on Sunday, the 24th, to a church where we visited the town. The church was very close and we could see the church clock from the window. The church is very big and has a very large bell. The church is very old and has a very beautiful interior. The people are very friendly and some of them are very important. The town is very nice to visit and we enjoyed our stay very much.

The town contains about 10,000 inhabitants and the houses are all very small, made mostly of wood. Some of them are able living in the country. 

Dr. Johnson, Antiguan, February 24, 1876