Copy of a printed graph representing the geometry of a Cornu spiral referenced as "Cornu spiral"

Contributors

Fuller, Watson, 1935-

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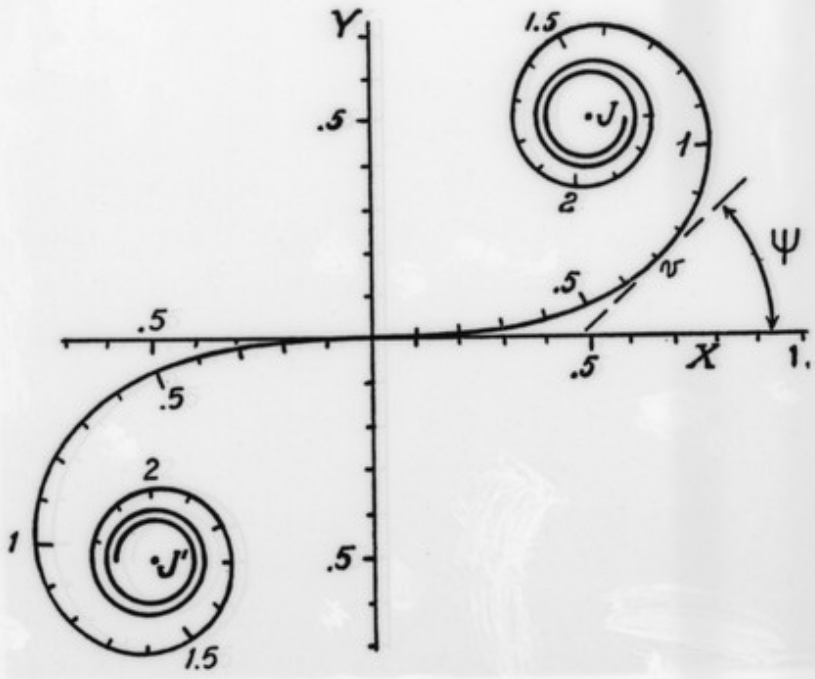
is divided to increase in [redacted] the vibration polygon to a corresponding vibration curve. This vibration curve will prove to be a so-called "Cornu spiral."

We shall next define the Cornu spiral and then proceed to consider first the properties of this spiral from a purely mathematical point of view. The demonstration that the vibration curve is a Cornu spiral will follow later.

4. The Geometry of the Cornu Spiral.—Figure 46 represents the spiral. This is defined by the equation:



a]

X

X

considered negative. Since either positive or negative values of v lead to positive values of ψ, there is an inflection at the origin. The curve is vertical