## ABAQUE or UNIVERSAL CALCULATOR,

giving on sight, accurate within  $rac{1}{200}$  , the results of all calculations of Authmetic, Geometry, and practical Mechanics, etc 200 by Léon Lalanne, former student of the Ecole Polytechnique, engineer of the Ponts et Chaussées.

This Abaque was approved by the Academy of Sciences on September 11, 1843



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**EF LISTRUCTIONS FOR USE OF THE ARAC** Respond to a scalad divide 32.5 by 13 storing from the interaction point of the disputed lum 32.5 with the vertical loss 15 and followsystem demonstrain the net de-main of the vertical dispert furtherm. Substrain could be assore than demonstrain the format tenne of a superstand-tion of the same than demonstrain the further and store-ation of the same than demonstrain the format tenne of a superstand-tene of the same than demonstrain the further and the sec-tering of number of quantities as particular the further format the correction for an other storing for the hearing tene or the further of the supersory first than arises the main ductor role are obtained by a storing from the vertical edge of the furthermal tenes of the further. The supersory first than arises from our need on the numerat ends the store in the vertical edge of the furthermal tenes of the furthermal tenes of the supersory first than arises from our need on the numerat ends the store in the vertical edge of the furthermal tenes of the furthermal tenes of the store and for the further furthermal tenes of the furthermal tenes of the store and the store tenes of the furthermal tense of the store dupids the store of the store of the store tense of the store tense of the store of the s

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N.B. For more detailed information, please refer to the printed instruction m ual available from the same distributors, as well as other models of the Abaque.