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## **Dimensional Analysis And Hydraulic Similitude**

Similitude is a concept applicable to the testing of engineering models. A model is said to have similitude with the real application if the two share geometric similarity, kinematic similarity and dynamic similarity. Similarity and similitude are interchangeable in this context. The term dynamic similitude is often used as a catch-all because it implies that geometric and kinematic similitude ...

# Similitude (model) - Wikipedia

Theory of operation. In the case where flow passes through a straight pipe to enter a centrifugal compressor the flow is straight, uniform and has no vorticity, ie swirling motion, so the swirl angle  $\alpha$  1 = 0° as illustrated. As the flow passes through the centrifugal impeller, the impeller forces the flow to spin faster as it gets further from the rotational axis.

# Centrifugal compressor - Wikipedia

2129 1 National Laboratory For Civil Engineering, Av. Brasil 101 - 1700-066 Lisboa Portugal , E-Mail:Bairrao@Lnec.Pt 2 National Laboratory For Civil Engineering, Av. Brasil 101 - 1700-066 Lisboa Portugal , E-Mail:Tvaz@Lnec.Pt SHAKING TABLE TESTING OF CIVIL ENGINEERING STRUCTURES - THE LNEC 3D SIMULATOR EXPERIENCE Rogerio BAIRRAO1 And Carlos T VAZ2 SUMMARY ...

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according to the Bernoulli's Theorem . The Bernoulli equation can be considered as a principle of conservation of energy, suitable for moving fluids. The behavior usually called "Venturi effect" or "Bernoulli effect" is the reduction of fluid pressure in areas where the flow velocity is increased.

# Venturi nozzle calculation - MECAFLUX

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i.e., the ratio of the soil water volume, V w (with dimensions of L 3 and units of m 3), to the total soil volume, V T (again with dimensions of L 3 and units of m 3). The latter is the sum of the volume of soild particles (V s), the volume of soil water (V w), and the volume of soil air (V a). Especially when subjecting a soil sample to chemical analyses, one prefers to express the soil water ...

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