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Applied Mathematics In Hydraulic Engineering

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Abstract: A teaching guide and reference to treating nonlinear mathematical problems in hydraulic, hydrologic and coastal engineering. It helps undergraduates studying civil and coastal engineering, as well as analysis and differential equations apply calculus to the treatment of nonlinear partial differential equations.

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Hydraulic engineering - Wikipedia

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Applied Mathematics in Hydraulic Engineering: An Introduction to Nonlinear Differential Equations Mizumura, Kazumasa Published by World Scientific, (2011)

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This discipline is not an independent development, but rather a synthesis of various disciplines like applied mathematics, fluid mechanics, numerical analysis and computational science. One of the main objectives of computational hydraulics is to obtain simulations of processes of flow and transport in open water bodies as detailed and as accurately as required within a predefined framework of specifications.

Computational Hydraulics

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The Finite Element Method: Fundamentals and Applications ...

Hydraulic Pressure & Force: Pressure can be defined as “the force acting on unit area, applied in a direction perpendicular to the surface of the object”. Pressure = Force/ Area. So, hydraulic pressure can be stated as the force exerted by a fluid on unit area, anywhere on the surface within the container.

Basic Principles Of Hydraulics - Bright Hub Engineering

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Subhasish Dey (Bengali: সূৰ্যসিক্ত দেৱ; born 1958) is a hydraulician and educator.He is known for his research on the hydrodynamics and acclaimed for his contributions in developing theories and solution methodologies of various problems on hydrodynamics, turbulence, boundary layer, sediment transport and open channel flow.He is currently a Professor of the Department of Civil ...