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Engineering is an excellent teaching
guide and reference to treating
nonlinear mathematical problems in
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engineering. Undergraduates studying
civil and coastal engineering, as well as
analysis and differential equations, are
started off applying calculus to the
treatment of nonlinear partial differential
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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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of civil engineering is concerned with the
flow and conveyance of fluids,
principally water and sewage. One
feature of these systems is the
extensive use of gravity as the motive
force to cause the movement of the
fluids. This area of civil engineering is
intimately related to the design of
bridges, dams, channels, canals, and

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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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theoretical and numerical implementation aspects of the FEM, providing examples in several important topics such as solid mechanics, fluid mechanics and heat transfer, appealing to a ...

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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”. $\text{Pressure} = \text{Force} / \text{Area}$. So, hydraulic pressure can be stated as the force exerted by a fluid on unit area, anywhere on the surface within the container.

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Subhasish Dey (Bengali: সূভাশিষ দেয়; 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 ...

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