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Ph.D. Candidate, Applied Mathematics Contents 1 Introduction 2 2 Numerical Computation of Hydraulic Transients 4 ... The proposed project concerns on the transient simulation of an hydraulic network. That is, the simulation of uid transients within a closed conduit.

Applied Hydraulic Transients, 3rd Edition covers hydraulic transients in a comprehensive and systematic manner from introduction to advanced level and presents various methods of analysis for computer solution. The book is suitable as a textbook for senior-level undergraduate and graduate students as well as a reference for practicing engineers and researchers. The field of application of the book is very broad and diverse and covers areas such as hydroelectric projects, pumped storage schemes, water-supply systems, cooling-water systems, oil pipelines and industrial piping systems. A strong emphasis is given to practical applications: several case studies, problems of applied nature, and design criteria are included. This will help the design engineers and introduce the students to real-life projects. Up-to-date references are included at the end of each chapter.

This second edition of a well established and highly regarded text has been comprehensively refined and updated, based on the author's experience and feedback from using the original edition during the years since its first publication in the early 1990's.

This book treats the problem of transient hydraulic computation, for hydroelectric plants and pumping stations, with an emphasis on numerical methods. The topics covered include: the waterhammer in hydraulic systems under pressure; experimental results concerning the waterhammer; protection of pumping stations with reference to the waterhammer; hydraulic resonance in hydroelectric power plant and pumping stations; mass oscillation in hydraulic surge systems; hydraulic stability of systems endowed with surge tanks; experimental results in the study of mass oscillations; hydroelectric power plants and pumping stations designed in complex hydraulic schemes; and computation of unsteady motions in the intermediate domain between rapid and slow motions. This book is not a standard monograph based on previously published material, but is primarily grounded on the theoretical and applied results obtained by authors during more than 20 years of practice. It considers the problems of hydraulic computation as encountered in the design of a significant number of hydroelectric power plants and pumping stations in Romania.

Open Channel Flow, 2nd edition is written for senior-level undergraduate and graduate courses on steady and unsteady open-channel flow. The book is comprised of two parts: Part I covers steady flow and Part II describes unsteady flow. The second edition features considerable emphasis on the presentation of modern methods for computer analyses; full coverage of unsteady flow; inclusion of typical computer programs; new problem sets and a complete solution manual for instructors.

The book presents firsthand material from the authors on design of hydraulic canals. The book discusses elements of design based on principles of hydraulic flow through canals. It covers optimization of design based on usage requirements and economic constraints. The book includes explicit design equations and design procedures along with design examples for varied cases. With its comprehensive coverage of the principles of hydraulic canal design, this book will prove useful to students, researchers and practicing engineers. End-of-chapter pedagogical elements make it ideal for use in graduate courses on hydraulic structures offered by most civil engineering departments across the world.

This book describes the fundamental phenomena of, and computational methods for, hydraulic transients, such as the self-stabilization effect, restriction of the Joukowski equation, real relations between the rigid and elastic water column theories, the role of wave propagation speed, mechanism of the attenuation of pressure fluctuations, etc. A new wave tracking method is described in great detail and, supported by the established conservation and traveling laws of shockwaves, offers a number of advantages. The book puts forward a novel method that allows transient flows to be directly computed at each time node during a transient process, and explains the differences and relations between the rigid and elastic water column theories. To facilitate their use in hydropower applications, the characteristics of pumps and turbines are provided in suitable forms and examples. The book offers a valuable reference guide for engineers and scientists, helping them make transient computations for their own programming, while also contributing to the final standardization of methods for transient computations.

Stem cells are the building blocks for all other cells in an organism. The human body has about 200 different types of cells and any of those cells can be produced by a stem cell. This fact emphasizes the significance of stem cells in transplantational medicine, regenerative therapy and bioengineering. Whether embryonic or adult, these cells can be used for the successful treatment of a wide range of diseases that were not treatable before, such as osteogenesis imperfecta in children, different forms of leukemias, acute myocardial infarction, some neural damages and diseases, etc. Bioengineering, e.g. successful manipulation of these cells with multipotential capacity of differentiation toward appropriate patterns and precise quantity, are the prerequisites for successful outcome and treatment. By combining in vivo and in vitro techniques, it is now possible to manage the wide spectrum of tissue damages and organ diseases. Although the stem-cell therapy is not a response to all the questions, it provides more and more answers every day. Stem Cells and Tissue Engineering is a concise review on the functional, phenotypic, regenerative, transplantational and curative aspects of a stem cell 's entity. It is critical and encouraging at the same time, providing truthful and appropriate samples from the practice and research that can lead toward optimal use of this immense source of adjuvant and curative therapy in human pathology. Written by a clinician and a researcher, who are currently teaching what they are doing, it is recommended as a teaching tool along with an original textbook.

Open Channel Flow, 2nd edition is written for senior-level undergraduate and graduate courses on steady and unsteady open-channel flow. The book is comprised of two parts: Part I covers steady flow and Part II describes unsteady flow. The second edition features considerable emphasis on the presentation of modern methods for computer analyses; full coverage of unsteady flow; inclusion of typical computer programs; new problem sets and a complete solution manual for instructors.

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