

Chapter 1

Water in soils

1.1 Steady-state fluid flow

Exercise 1

With reference to the permeameter in Figure 1.1, define the pore pressure in Y if 35% of the difference bw. the hydraulic head values dissipates in soil A (Note: lengths in cm). If the width of the permeameter is 100cm and the hydraulic conductivity K_B of soil B is $1 \times 10^{-2} \text{ cm/s}$, define also the discharge Q in m^3/s crossing the permeameter and the hydraulic conductivity K_A of soil A.

Solution

A permeameter, in the original setup of Darcy (see Figure 1.2), is a laboratory tool for the measurement of the hydraulic conductivity (o hydrogeological permeability) K of a given soil. It is a cylinder where a soil specimen is inserted; at the top and at the bottom there are two porous stones acting as filters (the water particles pass through, whereas the solid particles are kept in). The stones are connected to two reservoirs, whose levels are h_1 and h_2 (with respect to the base in the figure), maintained fixed by feeding the soil with water to produce a downward steady-state flow.

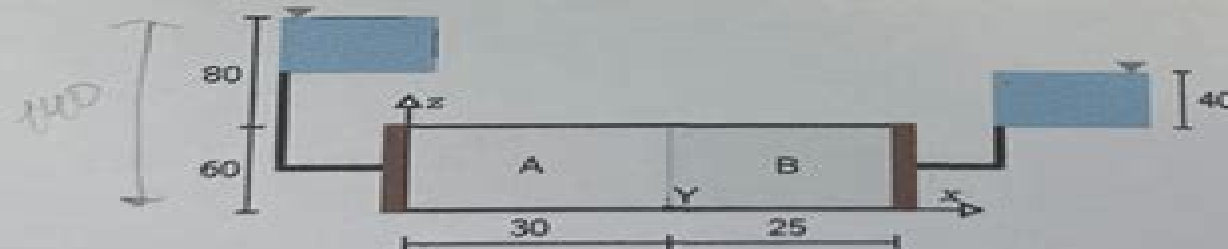


Figure 1.1. Scheme exercise #1

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Jicheng Xie



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EPA-430/1 ,1979-05 *A Systems Study of Soft Ground Tunneling* Fenix & Scisson,1970 Environmental and Pollution Science Ian Pepper,Charles P. Gerba,Mark L. Brusseau,2011-08-09 Environmental and Pollution Science Second Edition provides the latest information on the environmental influence of a significant number of subjects and discusses their impact on a new generation of students This updated edition of Pollution Science has been renamed to reflect a wider view of the environmental consequences we pay as a price for a modern economy The authors have compiled the latest information to help students assess environmental quality using a framework of principles that can be applied to any environmental problem The book covers key topics such as the fate and transport of contaminants monitoring and remediation of pollution sources and characteristics of pollution and risk assessment and management It contains more than 400 color photographs and diagrams numerous questions and problems case studies and highlighted keywords This book is ideally suited for professionals and students studying the environment especially as it relates to pollution as well as government workers and conservationists ecologists Emphasizes conceptual understanding of environmental impact integrating the disciplines of biology chemistry and mathematics Topics cover the fate and transport of contaminants monitoring and remediation of pollution sources and characteristics of pollution and risk assessment and management Includes color photos and diagrams chapter questions and problems and highlighted key words Australian Chemical Engineering ,1961 *Selected Water Resources Abstracts* ,1990 **Scientific and Technical Aerospace Reports** ,1978 Review of Organic Functional Groups Thomas L. Lemke,1992 Designed to be used as a self paced review this text outlines the functional groups common to organic chemistry reviewing the general topics of nomenclature physical and chemical properties and metabolism The text provides background material for the formal pharmacy courses in medicinal chemistry easing the transition from general organic chemistry courses required of all pre pharmacy students The Fourth Edition will include a workbook on CD ROM as well as an index on general drug metabolism Students who use this text are able to complete difficult tasks such as drawing a chemical structure or official chemical name predicting solubility of chemicals in liquids predicting and showing with chemical structures the metabolism of organic functional groups predicting and showing instabilities with chemical structures *EPA Publications Bibliography* ,1990-10 **Water** Colin Bain,2009 Water is perhaps the most important chemical substance known Without it the very existence of life would be questionable Yet its detailed structure and behaviour in the condensed phase and the interfaces between the condensed phase and its environment remain somewhat controversial Indeed as ever more sophisticated and novel experimental and theoretical tools are applied to the study of bulk liquid water and ice and its interfaces it is becoming increasingly clear that this disparate information could heat the debate on the phase and interface behaviour of water rather than cool it This book plans to achieve a unification of views towards the goal of

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