

Lab # 3 Water in Soil

Recommended Reading:

Weil and Brady, 2017: The nature and properties of soils. 15th ed., Chapters 5 and 6
Digging into Canadian Soils 114-116, 118-132

Part 1. Water Content

- a) Use the data provided in table 1 to calculate the: Mass of water in each soil, volume of water, mass based water content (sometimes called gravimetric water content) (θ_m), Volumetric water content (θ_v), depth equivalent water content in the 50 cm depth of each soil (D_w), soil bulk density (BD), soil pore space ratio (PSR), and the percentage of the pore space occupied by water. For each calculation provide your rough work for the calculations on one of the soils and provide your answers in table 2 below. Remember that the particle density will remain constant at 2.65 g cm^{-3} .

density of
water is
 1 g cm^{-3}

Table 1 Data on soil cores for use in calculation in part 1 a.

Core #	Wet weigh of soil (g)	Dry weight of soil (g)	Volume of soil (cm^3)
1	172	128	126
2	198	166	126
3	221	173	126

Table 2

Core #	Mass of water (g)	Volume of water (cm^3)	θ_m (%)	θ_v (%)	D_w cm/cm	BD (g cm^{-3})	PSR (%)	% of pore space filled with water
1	44g	44 cm^3	34.38%	34.92%	17.46 cm	1.02 g cm^{-3}	61.51%	56.77 %
2	32g	32 cm^3	19.28%	25.40%	12.70 cm	1.32 g cm^{-3}	50.19%	50.61 %
3	48g	48 cm^3	27.75%	38.10%	19.05 cm	1.37 g cm^{-3}	48.30%	78.88 %

$$\begin{aligned}\theta_m \text{ Soil 1} &= (44 / 128) \times 100 = 34.38\% \\ \theta_m \text{ Soil 2} &= (32 / 166) \times 100 = 19.28\% \\ \theta_m \text{ Soil 3} &= (48 / 173) \times 100 = 27.75\%\end{aligned}$$

$$\begin{aligned}\theta_v \text{ Soil 1} &= (44 / 126) \times 100 = 34.92\% \\ \theta_v \text{ Soil 2} &= (32 / 126) \times 100 = 25.40\% \\ \theta_v \text{ Soil 3} &= (48 / 126) \times 100 = 38.10\%\end{aligned}$$

$$\begin{aligned}D_w \text{ Soil 1} &= (34.92 \times 50) / 100 = 17.46 \\ D_w \text{ Soil 2} &= (25.40 \times 50) / 100 = 12.70 \\ D_w \text{ Soil 3} &= (38.10 \times 50) / 100 = 19.05\end{aligned}$$

$$\begin{aligned}BD \text{ Soil 1} &= 128 / 126 = 1.02 \\ BD \text{ Soil 2} &= 166 / 126 = 1.32 \\ BD \text{ Soil 3} &= 173 / 126 = 1.37\end{aligned}$$

$$\begin{aligned}PSR \text{ Soil 1} &= (1 - (1.02 / 2.65)) \times 100 = 61.51 \\ PSR \text{ Soil 2} &= (1 - (1.32 / 2.65)) \times 100 = 50.19 \\ PSR \text{ Soil 3} &= (1 - (1.37 / 2.65)) \times 100 = 48.30\end{aligned}$$

% pore space:

$$\text{Soil 1} = (34.92 \times 100) / 61.51 = 56.77$$

$$\text{Soil 2} = (25.40 \times 100) / 50.19 = 50.61$$

$$\text{Soil 3} = (38.10 \times 100) / 48.30 = 78.88$$

Study Guide Soil And Water Answers

Garrison



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Student Study Guide Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years

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Study Guide, Young/Freeman University Physics, Ninth Edition Young, James R. Gaines, William F. Palmer, 1996 A Lewis Ford Texas A M This manual includes worked out solutions for about one third of the problems Volume 1 covers Chapters 1 17 Volume 2 covers Chapters 22 46 Answers to all odd numbered problems are listed at the end of the book Study

Material Based On NCERT Science Class- X Dr. Sunita Bhagiya, ,Er. Meera Goyal, 2021-11-26 1 Chemical Reaction And Equations 2 Acids based and Salts 3 Metals and Non Metals 4 Carbon and Its Compounds 5 Periodic Classification of elements 6 Life Processes 7 Control and Coordination 8 How do Organisms Reproduce 9 Heredity and Evolution 10 Light Reflection and Refraction 11 The Human Eye and the Colourful World 12 Electricity 13 Magnetic Effects of Electric Current 14 Sources of Energy 15 Our Environment 16 Sustainable Management of Natural Resoures Practical Project Appendix

Answer Sheet Examination Paper **Teacher's Study Guide on the Biology of Human Populations: Africa**

Unesco, 1975 The Study of Soils in Relation to Wisconsin Conditions Fred Theodore Ullrich, 1923 **Manual of the Elementary Course of Study for the Common Schools of Wisconsin** Wisconsin. Department of Public Instruction, 1906

Study Guide and Student Solutions Manual for Wilson College Physics David Cordes, Jerry D. Wilson, John Kinard, 1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools it provides a wide range of relevant applications and illustrative examples This book discusses mechanics thermodynamics and oscillations and wave motion For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations devices and topics *Test Items and Interactive Electronic Study Guide Questions for Starr's Biology :*

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Solutions (SERM) Haitham M. Alzoubi, Yuvaraj Ganesan, Daher R. Alqurashi, 2025-12-03 This book presents a comprehensive exploration of environmental risk management targeting policymakers educators students and professionals engaged in environmental sciences and sustainability It navigates through a series of interconnected themes that illustrate the complexity of environmental issues and the multifaceted strategies required to address them In the first chapter Educational Initiatives and Awareness the focus is on the pivotal role educational institutions play in fostering environmental awareness It emphasizes how curricula that incorporate environmental education can empower future generations to recognize and

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