

Errata Sheet for John A. Conners'
Groundwater for the 21st Century: A Primer for Citizens of Planet Earth
11 October 2016

P 84, line 4: OMIT “and storage quantities.”

P 101: REWORD top paragraph to say: “The behavior of this great subsurface body of groundwater is largely determined by changes in the confining forces generated by the weight of the water itself. This force within the groundwater reservoir is called hydrostatic pressure. The weight of water entering the groundwater at higher elevations pushes down on underlying water and forces it to slowly migrate through the rock and soil. Most of this water will eventually exit the zone of saturation at lower elevations. These are discharge areas. Major discharge areas often contain streams, springs, or permanent water bodies such as lakes and oceans.”

P 128: On Figure 4.14, the 60' contour line (far left) is missing on the map view.

P 164, line 3 on caption for Figure 6.7: “dotted line” should be “dashed line.”

P 174, lines 7-8: REWORD to say “... the rate at which a quantity of groundwater moves...”

P 174, line 10: REWORD to say “on the order of 1,000 m/day (3,300 ft/day).”

P 176, line 15: REPLACE “Hydraulic conductivity may be expressed in many ways:” with “The movement of groundwater through a medium may be expressed in various ways, for example:”

P 176, line 21: For “meinzers,” add the word “archaic” between “an” and “English.”

P 181, lines 4-6: REWORD to say “...hydrostatic pressure due to the pull of gravity on groundwater. Groundwater at higher elevations generates pressure differentials within the groundwater body, just as the weight of water in Darcy’s upper reservoir pushed down on his sand filter. The sum of elevation and pressure at any point in the groundwater is called hydraulic head, or just head (Section 6.8). Changes in hydraulic head from one location to another provide the driving force for groundwater movement. Head can be thought of as...”

P 181, lines 19-22: REWORD to say “The change in hydraulic head from one location to another is the hydraulic gradient (i). For unconfined water at or very near the water table, “ i ” essentially equals the slope of the water table. Specifically,...”

P 181, line 26: REWORD to say “This equation simply says that the water...”

P 181, equation near bottom of page, REWORD to say “or sometimes oversimplified to”

P 182-184, 195: For clarity and consistency, use “ Δh ” instead of “ h ” or “ ΔH ” in all equations on these pages.

P 184, line 10: OMIT “or permeability”

P 195, line 6: REPLACE “permeability (K)” with “hydraulic conductivity (K)”. Also note that the “h” and “ ΔH ” symbols in this paragraph on this page should all be “ Δh ” as per above comment.

P 264, Figure 8.9: ADD to end of caption “Areas shown are identified on Table 8.3.”

P 265, Figure 8.10: ADD to end of caption “Areas shown are identified on Table 8.4.”

P 481: OMIT first sentence in last paragraph.