Changes to Section 1 of the Science of Diving Student Manual, First Edition, First Printing 6/10

p 1-5, “This expressed in metric units would be: Fresh water = 1 kg/cm2 per 9.77 metres of depth; Salt water = 1 kg/cm2 per 10.07 metres of depth.”

Change to “… Fresh water = 0.1 kg/cm2 per metre of depth; Salt water = 0.1026 kg/cm2 per metre of depth.”

p 1-16, “Should we need to very exact and find freshwater depth, we would use the number “34” for imperial or 0.98 for metric in the above formulas in place of “33” for imperial or 1.00 for metric.”

Change to “… we would use the number “34” for imperial or “10.3” for metric in the above formulas in place of “33” for imperial or “10” for metric.”

p 1-16, bullet point “T always refers to absolute temperature. This is expressed in degrees Rankine or degrees”

Bring the concluding word to the above bullet point (“Kelvin”) up from its isolated position styled as a section head to complete the sentence.

p 1-19, The table on this page poses two problems, one labeled “Imperial” and one labeled “Metric.” The text under “Example” is identical in both. However, the math and answers are quite different.

The “Metric” question should be how deep to take a two-litre container so it measures 1.5 litres.

p 1-19, Some figures in the table use a comma as the decimal mark.

Change to periods.

p 1-20, “The next doubling of pressure occurs at 4 ATA or 66 fsw (20.12 msw).”

Change to “The next doubling of pressure occurs at 4 ATA or 99 fsw (30.18 msw).”

p 1-23, Final solution for V2, 3312 psi, is incorrect.

Change to 3412 psi.

p 1-30, In the second example the final figures in both columns (107.6 and 46) are wrong.

Change to “-106.6” for imperial and “-46” for metric.

p 1-30, Final paragraph on the page, “with a force of 107.6 pounds / 46 kg.”

Change to “with a force of 106.6 pounds / 46 kg.”

p 1-31, Metric equivalents in the Example (“158 kg” and “0.165 cu. m.”) are wrong.

Change to “159 kg” and “0.155 cu. m.”

p 1-31, Metric values in the table (“0.165 cu.m.” and “0.155.5”) are wrong.

Change to “0.155 cu.m.” and “0.155” respectively.

p 1-35, Formula following the text “Formula for Calculating SRV from SAC” is wrong.

Change formula to read “SRV = SAC / (Pw / Vw)”

p 1-36, Formula following “Formula for Calculating SAC if the Diver’s SRV is Known” is wrong.

Change formula to read “SAC = SRV x (Pw / Vw)”