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These CT numbers are computed using the following relationship:  $CT\ Number = \mu_{tissue} - \mu_{water}$  where K is a manufacturer's scaling factor or contrast factor, and in general,  $K = 1000$ .

The relationship between tissue voxel  $\mu$  and image pixel (CT number) is shown in Figure 5.

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Computed Tomography - 4th Edition - Elsevier

1. Ann Acad Med Singapore. 2004 Mar;33(2):133-45. Physical principles and technology of clinical PET imaging. Townsend DW(1). Author information: (1)Department of Medicine, University of Tennessee Medical Center, Knoxville, Tennessee 37920-6999, USA. dtownsend@mc.utmck.edu Molecular imaging with positron-emitting radionuclides is playing an increasingly important role in the diagnosis and ...

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