Human Brain Anatomy in Computerized Images

This second edition offers entirely new images, all from new brain specimens.

By using non-invasive tomographic scans, modern neuroimaging technologies are revealing the structure of the human brain in unprecedented detail. This spectacular progress, however, poses a critical problem for neuroscientists and for practitioners of brain-related professions: how to find their way in the current tomographic images so as to identify a particular brain site, be it normal or damaged by disease? Prepared by a leading expert in advanced brain-imaging techniques, this unique atlas is a guide to the localization of brain structures that illustrates the wide range of neuroanatomical variation. It is based on the analysis of 29 normal human brains obtained from three-dimensional reconstructions of magnetic resonance scans of living persons.

Features:
* An anatomical atlas based entirely on three-dimensional reconstructions of magnetic resonance images
* Entirely new images for the second edition, all from new brain specimens
* Detailed description of the surface anatomy of three brains with overall different shapes, and 386 slices of coronal, axial, and parasagittal incidences in those three brains
* A collection of 26 normal brains, each seen in six different incidences, with sulci identified and labeled
* A collection of 46 normal brains segmented and quantified into major lobes, and gray and white matter
* A selection of brain scans with focal lesions and illustration of common errors