

## Computed Tomography Principles Design Artifacts And Recent Advances Second Edition Spie Press Monograph Vol Pm188

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How Does a CT (CAT Scan) Work?CT Image: Pixel and Voxel

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CT artifacts

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The author would also like to thank Dr. T. S. Pan of the M.D. Anderson Cancer Research Center for providing some of the positron emission computed tomography images, Dr. P. Kinahan of the University of Washington for providing research results on patient motion artifacts, and Dr. G.-H. Chen for supplying pictures from his research in iterative reconstruction performance.

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CT artifacts originate from a range of sources. Physics-based artifacts result from the physical processes involved in the acquisition of CT data. Patient-based artifacts are caused by such factors as patient movement or the presence of metallic materials in or on the patient. Scanner-based artifacts result from imperfections in scanner function.

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Theoretically, an image artifact can be defined as any discrepancy between the reconstructed values in an image and the true attenuation coefficients of

the object. Although this definition is broad enough to cover nearly all types of nonideal images, it has little practical value since nearly every image produced by a CT scanner contains an artifact by this definition.

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