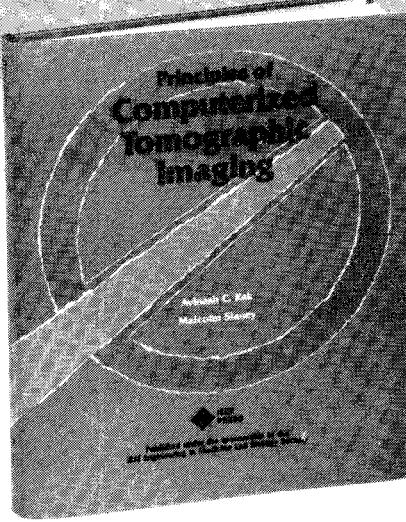


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Tomography refers to the cross-sectional imaging of an object from either transmission or reflection data collected by illuminating the object from many different directions. The impact of tomography in diagnostic medicine has been revolutionary, since it has enabled doctors to view internal organs with unprecedented precision and safety to the patient.

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### About the Authors

**Avinash C. Kak** is a professor of electrical engineering at Purdue University, where his current research includes programming paradigms for reasoning, especially in the domain of computer vision, and sensor and sensory integration for robots.

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**Contents-in-brief:** Introduction; Signal Processing Fundamentals; Algorithms for Reconstruction with Nondiffracting Sources; Measurement of Projection Data—The Nondiffracting Case; Aliasing Artifacts and Noise in CT Images; Tomographic Imaging with Diffracting Sources; Algebraic Reconstruction Algorithms; Reflection Tomography; Index; About the Authors.

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