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## Sensing and Imaging for Defect Detection

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With the progress made in science and technology, the quality of people's material and cultural lives has improved, meaning that the requirements for product quality and nondestructive testing technology have further increased. Nondestructive testing technology usually includes five conventional testing technologies, namely, eddy current, penetration, magnetic particle, ultrasonic, and X-ray, along with their related new technologies. Usually, different materials need to be detected, and the defects that need to be detected are not the same; for example, for metals, defects include non-metallic pipe defects and slag inclusions, the metal not being welded through, porosity, etc.; for the power transmission of porcelain bottles such as ceramic materials, defects include cracks, porosity, etc.

This reprint collected papers about the detection of the most common defects, including surface defects, subsurface defects and so on. Recent advances in sensor technologies form the basis of the development of nondestructive testing technology, data acquisition processing, and image processing technology.

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