

1.2.1. IMPROVEMENTS IN EDDY CURRENT TECHNOLOGY

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Over the past five years, the capabilities of Eddy Current hardware and software have improved dramatically. Eddy Current digital systems can now manipulate data real time enhancing the Probability of Detection (POD) of target defects to meet increasingly difficult test criteria. Data can be stored and used for reference for future tests. Sensor technology has evolved in parallel allowing manufacture of eddy current array sensors for wide area surface scanning and inspection of complex shapes.

This presentation will review inspection solutions for several unique eddy current array applications including complex shaped components in the aerospace and power generation industries, ID tube inspection, and inspection of rail components. The capabilities of eddy current array, liquid penetrant and magnetic particle inspection will also be presented.