

4.2.4. ADVANCED ACQUISITION AND EVALUATION ALGORITHMS FOR ULTRASONIC TESTING OF COMPLEX COMPOSITE STRUCTURES

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Recent developments in structural components of Aircrafts result in more complex structures of those parts. These parts show shapes of varying thickness with integrated stiffeners and stringers. With the complexity of parts, UT evaluation complexity increases as well. Recent advanced software and hardware capabilities enable set up of multiple echo UT data acquisition for higher information content without increasing the data storage volume and at even increased productivity of automated testing.

New algorithms strongly support the operator evaluation to increase productivity and evaluation quality as well.