

4.2.37. NDT OF AERONAUTICAL MATERIALS BY DIGITAL SHEAROGRAPHY

Zhang Y., Wang Z., Guo G.,
Beijing Institute of Aeronautical Materials, Beijing, China

Digital shearography is a well-known interferometric technique that has established itself as a reliable alternative to conventional methods in NDT of various aeronautical materials and parts, and is increasingly being used in the aviation industry. Unlike the photographic interferometry methods it can instantly and in real time produce interferometric images in digital form, with no film processing required. The purpose of this paper is to introduce the available technology of shearography during the last decade. NDT Inspections of some aircraft materials were performed with our shearographic systems in a Lab or workshop environment. The testing results and analyses are presented.