

LIST OF SYMBOLS, ABBREVIATION AND NOMENCLATURE

| | | |
|------------------|---|---|
| λ | – | wavelength |
| \bar{L} | – | deformation vector |
| \bar{K}_s | – | propagation vectors |
| u | – | in-plane displacement component along x-direction |
| v | – | in-plane displacement component along y-direction |
| w | – | out-of-plane displacement component |
| $\bar{\delta}_s$ | – | phase change due to deformation |
| θ | – | angle of illumination / observation |
| ϕ | – | random phase |
| β, γ | – | phase change due to aperture separation |
| ψ | – | angle of rotation |
| Δx_i | – | shear at the image plane |
| Δx_o | – | shear at the object plane |
| m, m_1, m_2 | – | integers |
| ESPI | – | Electronic Speckle Pattern Interferometry |
| DSPI | – | Digital Speckle Pattern Interferometry |
| NDT | – | Non Destructive Testing |
| CCD | – | Charge Coupled Device |