## LIST OF TAbLES

Table 2.1: General algorithm for algebraic techniques 28
Table 2.2: Brief overview of SIR methods (Statistical Iterative Methods for Im- 39 age reconstruction)
Table 2.3: Recent Methodologies used in Low-Dose X-ray CT 43
Table 3.1: Performance measures for the reconstructed images using Proposed 75 (MLEM +AD ) and other methods for Test case 1
Table 3.2: Performance measures for the reconstructed images using Proposed 76 (MLEM +AD ) and other methods for Test case 2

Table 3.3: Performance measures for the reconstructed images of Test case 187
Table 3.4: Performance measures for the reconstructed images of Test case $2 \quad 89$
Table 4.1: Performance measures for the reconstructed images using Proposed 110 (SART+MLEM+MedAD) and other methods for Testcase 1
Table 4.2: Performance measures for the reconstructed images using Proposed 111 (SART+MLEM + MedAD) and other methods for Testcase 2
Table 4.3: Performance measures for the reconstructed images using Proposed 112 (SART+MLEM+MedAD) and other methods for Testcase 3
Table 4.4: Performance measures for the reconstructed images using Proposed 113 (SART+MLEM + MedAD) and other methods for Testcase 4
Table 4.5: Comparison of performance measures for the reconstructed images 122
Table 4.6: Comparison of performance measures for the reconstructed images 122 using Proposed (SART $+\mathrm{MRP}+\mathrm{AD}$ ) and other methods Testcase 2
Table 4.7: Performance measures for the reconstructed images using Proposed 135 (SART + OSEM +AD ) and other methods for Testcase 1
Table 4.8: Performance measures for the reconstructed images using Proposed 136 (SART + OSEM + AD) and other methods for Testcase 2
Table 4.9: Performance measures for the reconstructed images using Proposed 137 (SART + OSEM + AD) and other methods for Testcase 3
Table 4.10: Performance measures for the reconstructed images using Proposed 138 (SART + OSEM + AD) and other methods for Testcase 4

