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2.4. Calculation of two-point correlation functions using SAXS or SANS data2.5. Necessary conditions for two-point correlation functions; 2.6. Approximation of two-point correlation functions; 2.7. Conclusion; 3.1. Introduction; 3.3. Approximation of four-point correlation functions; 3.4. Approximation of N-point correlation functions; 3.5. Results; 3.6. Conclusions; 4.1. Introduction; 4.2. Monte Carlo reconstruction methodology; 4.3. Reconstruction procedure using the simulated annealing (SA) algorithm; 4.4. Phase recovery algorithm

4.5. 3D reconstruction of non-eigen microstructure using correlation functions4.6. Conclusion; 5.1. Introduction; 5.2. Modified strong-contrast approach for anisotropic stiffness tensor of multiphase heterogeneous materials; 5.3. Strong-contrast approach effective to thermal conductivity of multiphase heterogeneous materials; 5.4. Simulation and experimental verification; 5.5. Results and discussion; 5.6. Conclusion; 6.1. Introduction; 6.4. FEM analysis of debonding-induced damage model for polymer composites; 6.5. Conclusion and future work

2.6.1. Examination of the necessary conditions for the proposed estimation