

3-D Z-Transfer Function Coefficient Methodology

In solving for the conduction z-transfer function coefficients, different kinds of cut-off and minimization procedures were applied to satisfy, as best as possible, compatibility conditions. Magnitude of the relative error of the steady state heat flux, E_1 :

$$E_1 = \left[\sum_{n=0}^{M_b} b_n - \sum_{n=0}^{M_c} c_n \right] \times \left[\sum_{n=0}^{M_d} d_n \right]^{-1} \quad (16)$$

was controlled. The results are collected in Part II: Tables n.2. Maximum index of a coefficient does not exceed 5. The accuracy is 5 decimal places. Further discussion regarding the accuracy of the three-dimensional z-transfer function coefficients is included in Appendix F.