Mohamed T Boudjelkha* (boudjm@rpi.edu), Mathematical Sciences Department, Amos Eaton # 404, Rensselaer Polytechnic Institute, Troy, NY 12180. On the Approximation of the Lower Generalized Incomplete Gamma Function, Arising in Heat Conduction Problems.

In this paper we consider the Lower Generalized Incomplete Gamma Function. Properties, approximations and applications are discussed. Closed form expressions are also obtained. (Received July 20, 2011)