1027-33-46   **Edward George Neuman*** (`edneuman@math.siu.edu`), Department of Mathematics, Southern Illinois University, Carbondale, IL 62901-4408. *Inequalities and bounds for elliptic integrals.*

Computable lower and upper bounds for the symmetric elliptic integrals and for Legendre's integrals are obtained. New bounds are sharper than those known in mathematical literature. Several inequalities involving integrals under discussion are also derived. (Received February 06, 2007)