



## ON CERTAIN INEQUALITIES IMPROVING THE HERMITE-HADAMARD INEQUALITY

SABIR HUSSAIN AND MATLOOB ANWAR

SCHOOL OF MATHEMATICAL SCIENCES  
GC UNIVERSITY, LAHORE  
PAKISTAN  
[sabirhus@gmail.com](mailto:sabirhus@gmail.com)

[matloob\\_t@yahoo.com](mailto:matloob_t@yahoo.com)

*Received 21 April, 2007; accepted 04 June, 2007*

*Communicated by S.S. Dragomir*

---

ABSTRACT. A generalized form of the Hermite-Hadamard inequality for convex Lebesgue integrable functions are obtained.

---

*Key words and phrases:* Convex function, Hermite-Hadamard inequality, Mean value.

*2000 Mathematics Subject Classification.* Primary 26A51; Secondary 26A46, 26A48.