HILBERT INTEGRAL OPERATOR INEQUALITIES

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Abstract. In this paper, we establish new Hilbert integral operator inequalities with the general kernel. They are significant extensions and improvements of some known results.

REFERENCES

[1] G. H. HARDY, J. E. LITTLEWOOD AND G. POLYA, *Inequalities*, Cambridge University Press, Cambridge, MA, 1952.
[2] A. E. INGHAM, *A note on Hilbert's inequality*, J. London Math. Soc. **11** (1936), 237–240.
[3] YANG BICHENG, *On Hilbert's integral inequality*, J. Math. Anal. Appl. **220** (1998), 778–785.
[4] GAO MINGZHE, TAN LI AND L. DEBNATH, *Some improvements on Hilbert's integral inequality*, J. Math. Anal. Appl. **229** (1999), 682–689.
[5] KUANG JICHANG, *On Hilbert's integral inequality*, J. Math. Anal. Appl. **233** (1999).
[6] YANG BICHENG, *On generalizations of Hardy-Hilbert's integral inequalities*, Acta Math. Sinica **41 No. 4** (1998), 839–844.

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