

ABSTRACT

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Title: The Hardy-Littlewood Inequalities for Some Almost Periodic Functions
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This work is a continuation of Boryshchak, Myers, and Sagher in [10], extending and refining results in the theory of almost periodic functions. New results are accompanied by proofs and unified methods using tools drawn from harmonic analysis, functional analysis, point set topology, the theory of charges (finitely additive measures), and mathematical logic. The central contribution of this work lies not only in its results but in its exposition which presents a coherent framework intended to bridge advanced research and graduate-level study, to further developments in related areas.