

Functions positively associated with integral transforms.

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Let G be an origin-symmetric compact set in $\mathbb{R}^n$, let T be a linear operator from $C(G)$ into itself. We say that a function h is positively associated with T if, for every function $f \in C(G)$ such that $Tf(x) \geq 0$ for every $x \in G$, we have $\int_G fh \geq 0$. We characterize the classes of positively associated functions for several integral transforms and present geometric applications.

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