Título: Positive Definiteness Of Funtions With Applications To Operator Norm Inequalitie

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Precio: $937.20

Editorial:

Año: 2011

Tema:

Edición: 1ª

Sinopsis

ISBN: 9780821853078

Positive definiteness is determined for a wide class of functions relevant in the study of operator means and their norm comparisons. Then, this information is used to obtain an abundance of new sharp (unitarily) norm inequalities comparing various operator means and sometimes other related operators.

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