

A Review of Important Double Integral Transformations with Some Elementary Functions

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Abstract: *Through their applications in many domains, integral transformations have demonstrated their importance in mathematics for decades. Mathematicians have found that double integral transforms may provide unexpected characteristics and enable new applications after extensive research on integral transforms. It analyzes 29 double integral transformations and their applicability to fundamental functions. These transformations help solve partial differential equations in physics, engineering, medicine, and mechanics. Our evaluation uses 29 references to illustrate their real-world relevance*

Keywords: Basic Functions, Elementary Functions, Double Integral Transformations.