Sumudu Transform Powers: Theory and Applications

Fethi Bin Muhammad Belgacem
Department of Mathematics, Faculty of Basic Education, PAAET, Al-Ardhiya, Kuwait
fbmbelgacem@gmail.com

ABSTRACT

In this presentation we attempt to briefly shed lights on the deeper properties of the Sumudu Operator, and present the various advantages it has over other transforms such as Laplace or Fourier while agreeing with them in the latter’s temporal applications. We will show pragmatic application to the fact. Consequently, from an educationally pedagogical point of view, we should we be able to afford it and share its practice. The Sumudu can be easily recognized first as the antecedent of other transforms, through temporal dualities. Furthermore it ought to be presented to students and researchers alike, as a natural robust mathematical tool.

REFERENCES


