Application and properties of conformable fractional Nakagami probability distribution

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Abstract

This thesis focuses on the fractional conformable isotope definition applied to some basic concepts linked to the probability distribution of random variables. The concepts are the density functions, cumulative distribution, survival, and hazard function. Furthermore, it introduce fractional conformable isotopes with the expected values, r^{th} −moments, mean, variance, skewness, and kurtosis. As well, it would introduce fractional conformable isotopes with some measures of entropy such as Shannon, Renyi, Tsallis and characteristic function.

Keywords: Special functions, distributions, information theory, fractional conformable method, conformable distribution, conformable entropy measures.