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MOMENTS OF CONCOMITANTS OF ORDER STATISTICS FOR A NEW FINITE RANGE BIVARIATE DISTRIBUTION (FRBD)

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Abstract

This research article deals in developing mathematical expressions for moments of concomitants of order statistics. A new bivariate distribution has been developed for this purpose and different probability functions of concomitants have been obtained. It is a work of pure mathematics dealing with mathematical expressions which can directly be used in some other related studies. Mainly this work has been devoted to study the stochastic behavior of concomitants of order statistics.

Key words: Bivariate distribution, order statistics, concomitant, finite range bivariate distribution (FRBD)

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