(1)

(2)

(3)

(4) for

(5)

Cumulant Prop. 1: If , are constants, and , are random variables, then

Cumulant Prop. 2: If is a constant, then

Cumulant Prop. 3: If the random variable are indepedent of the random variables then

The nth order cumulants is described by:

(6)

(7)

(8)

(9)

(1)

(2)

(3)

(4) for

(5)

Cumulant Prop. 1: If , are constants, and , are random variables, then

Cumulant Prop. 2: If is a constant, then

Cumulant Prop. 3: If the random variable are indepedent of the random variables then

(6)

(7)

(8)

(9)