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A new framework for multivariate general conformable fractional calculus and potential applications

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*Highlights (for review)

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1. The multivariate theory of GCFD is established.

2. Fractional Maxwell's equations of GCFD are given to describe electromagnetic fields of media that demonstrate inhomogeneous, complicated and local properties.

3. Some fractional parabolic equations are presented as natural extensions of some nonlinear parabolic equations that cover several important famous equations.

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