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$$D^{\{n\}}(f) = (\underbrace{D \circ D \circ D \cdots}_{\{n\}})(f) = \underbrace{D(D(D \cdots))}_{\{n\}}(f)$$
.

Fractional calculus - Wikipedia

Fractional calculus is at this stage an arena where many models are still to be introduced, discussed and applied to real world applications in many branches of science and engineering where nonlocality plays a crucial role. Although researchers have already reported many excellent results in several seminal monographs and review articles, there are still a large number of non-local phenomena unexplored and waiting to be discovered.

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