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Fractional calculus (FC) is a misnomer, because irrationals can also be integral indices in this field. This book covers all the major pieces, as well as good history up to 1975. Since then, most of the advances have come in numerical methods and extended applications in fractional conservation of mass, porous media flows, bioacoustics, polymer dampening, etc.

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The Fractional Calculus: Theory and Applications of Differentiation and Integration to Arbitrary Order. Keith B. Oldham, Jerome Spanier. The product of a collaboration between a mathematician and a chemist, this text is geared toward advanced undergraduates and graduate students. Not only does it explain the theory underlying the properties of the generalized operator, but it also illustrates the wide variety of fields to which these ideas may be applied.

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Fractional-order control (FOC) is a field of control theory that uses the fractional-order integrator as part of the control system design toolkit. The use of fractional calculus (FC) can improve and generalize well-established control methods and strategies. The fundamental advantage of FOC is that the fractional-order integrator weights history using a function that decays with a power-law tail.

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The fractional calculus is a name for the theory of integrals and derivatives of arbitrary order, which unify and generalize the notions of integer-order differentiation and n -fold integration. Let us consider the infinite sequence of n -fold integrals and n -fold derivatives:

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