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Preface

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Publisher Summary

Fractional calculus has gained considerable popularity and importance during the past three decades mainly because of its demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering. The chapter presents results, including the existence and uniqueness of solutions for the Cauchy Type and Cauchy problems involving nonlinear ordinary fractional differential equations, explicit solutions of linear differential equations and of the corresponding initial-value problems by their reduction to Volterra integral equations and by using operational and compositional methods; applications of the one- and multidimensional Laplace, Mellin, and Fourier integral transforms in deriving the closed-form solutions of ordinary and partial differential equations; and a theory of the so-called "œsequential linear fractional differential equations," including a generalization of the classical Frobenius method.

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