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seen a use of projection operators in the Gram-Schmidt procedure earlier (equation 2.21). 3.2 Combining operators The composition of two linear operators A and B is another linear operator. In case it is not obvious how to show this, let us write $C = AB$ for the result of applying B first, then A . Now notice that C is a mapping

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Consequently, as well as algebraic polynomials, we can multiply, factor or divide differential operators \mathcal{L} with constant coefficients. These properties are used in the operator method of solution of differential equations.

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We may now invoke the linear properties of D to define what we mean by a polynomial in D . In particular, if a_0, a_1, \dots, a_n are constants we define $a_0 + a_1 D + \dots + a_n D^n$ to mean $a_0 + a_1 D + \dots + a_n D^n$. The connection between this definition and our previous study of lin-

Some Notes on Differential Operators

Professor Ramkrishna's research interests lie in the application of mathematics to chemical and biochemical reaction engineering. He has published nearly 200 papers and two books, one entitled Linear Operator Methods in Chemical Engineering (Prentice-Hall) coauthored with Neal Amundson, and the other on Population Balances. Theory and Applications to Particulate Systems in Engineering and Science (Academic Press).

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Mathematical Methods in Engineering and Science

54 Boundary-Value Problems for Ordinary Differential Equations: Discrete Variable Methods with $g(y(a), y(b)) = 0$ (2.2b) If the number of differential equations in systems (2.1a) or (2.2a) is n , then the number of independent conditions in (2.1b) and (2.2b) is n . In practice, few problems occur naturally as first-order systems.

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The major part of the chapter is devoted to approximating methods in probability spaces but in Section 5.2, we have also considered the best operator approximation technique for the so called “deterministic” case. In Sections 5.4–5.7, the specific methods for nonlinear operator approximation have been given. It is assumed that covariance ...

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In the present article, we implement a new numerical scheme, the quasilinearized semi-orthogonal B-spline wavelet method, combining the semi-orthogonal B-spline wavelet collocation method with the quasilinearization method, for a class of multi-term non-linear fractional order equations that contain both the Riemann-Liouville fractional integral operator and the Caputo fractional ...

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