4.7: Differential Operators

- We will now define some notation to make working with differential equations easier!
- **Definition:** $D := \dfrac{d}{dx}; D^2 := \dfrac{d^2}{dx^2}; ..., D^k := \dfrac{d^k}{dx^k}$ $(k \geq 1)$

(Thus, $\dfrac{d^k y}{dx^k}$ can be written $D^k y$.)

We call the expression

$$A = a_0 D^n + a_1 D^{n-1} + ... + a_{n-1} D + a_n \qquad (1)$$

a differential operator of order n.

(Here a_i are either constants or functions of x.)

Iterations Of Differential Operators

M Walker

Iterations Of Differential Operators:

Iterations of Differential Operators A. V. Babin,1989 Translated from the Russian by H Zahavi Topics covered include the activity of linear and nonlinear differential operators the related theories of functions and operators and the connections between the theory of functions and partial differential equations The author focuses on new methods of constructing solutions for partial differential equations and looks at research into the smoothness of these solutions Formulae theorems and lemmas are numbered independently for quick reference and the detailed listing of the subjects covered in each chapter enables the reader to find a particular area of interest without difficulty Annotation copyrighted by Book News Inc Portland OR   **Iteration Theory and Its Functional Equations** Roman Liedl,Ludwig Reich,György Targonski,1985-12

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