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The related problems of infinite-dimensional analysis have been studied in Kiev since 1967, and the theory of generalized functions of infinitely many variables has been investigated since 1973. However, due to the political system in the U.S.S.R., contact between Ukrainian and foreign mathematicians was impossible for a long period of time.

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By applying a mapping to the Chebyshev polynomials, we define a new spectral basis: the rational Chebyshev functions on the semi-infinite interval, denoted by  $T_L(y)$ .

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CHAPTER T REFETHEN Finite difference methods like finite element methods are based on local representations of functions usually by low order polynomials

### **CHAPTER T REFETHEN - University of Oxford**

Rational Chebyshev Spectral Methods for Unbounded Solutions on an Infinite Interval Using Polynomial-Growth Special Basis Functions J. P. BOYD Department of Atmospheric, Oceanic, and Space Science and Laboratory for Scientific Computation University of Michigan, 2455 Hayward Avenue Ann Arbor, MI 48109, U.S.A.

### **Rational Chebyshev Spectral Methods for Unbounded**

Spectral methods are one of the "big three" technologies for the numerical solution of PDEs, which came into their own roughly in successive decades: 1950s: finite difference methods 1960s: finite element methods 1970s: spectral methods Naturally, the origins of each technology can be traced further back.

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rectly. Our method also treats the condition correctly and is efficient because the fast Fourier transform can be used naturally in mapping the azimuthal direction. Thus it offers an alternative method to the vortex methods. We develop the basis functions in Section 2. Vector fields are treated in Section 3.

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