

Research Article

The Spectral Theory Of Periodic Ordinary Differential Equations

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The spectral theory of periodic differential equations is a branch of mathematics that look into and study of the eigenvalues and eigenfunctions of differential operators with periodic coefficients. These equations appear naturally in many scientific and engineering applications in physics, biology, and mechanics, particularly in the modeling of systems with periodic behavior such as oscillatory systems in physics and biology.

One of the key features of periodic differential equations is the periodicity in the coefficients of the differential operators. This periodicity introduces a mathematical structure that leads to unique properties in the spectral theory of these equations. Unlike the case of constant coefficients, where the eigenvalues and eigenfunctions are typically well-defined, the periodic of the coefficients rises to a more complex spectrum.

The study of the spectral theory of periodic differential equations involves understanding the properties of the spectrum, including the existence and uniqueness of eigenvalues, the behavior of eigenfunctions, and the stability of solutions. This theory plays an important role in the analysis and prediction of the behavior of periodic systems, providing insights into their long-term dynamics and stability.

In this paper, we will explore the spectral theory of periodic differential equations such as Floquet's equation, Hill's equation and Mathieu's equation. Also, we will concentrate on properties of the solutions of them.

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