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Bessel Functions And Their Applications

Applications of Bessel functions. Bessel's equation arises when finding separable solutions to Laplace's equation and the Helmholtz equation in cylindrical or spherical coordinates. Bessel functions are therefore especially important for many problems of wave propagation and static potentials.

Bessel function - Wikipedia

Bessel functions of the first and second kind are the most commonly found forms of the Bessel function in applications. Many applications in hydrodynamics, elasticity, and oscillatory systems have solutions that are based on the Bessel functions. One such example is that of a uniform density chain fixed at one end undergoing small oscillations.

Bessel Functions and Their Applications

Bessel functions are associated with a wide range of problems in important areas of mathematical physics. Bessel function theory

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Bessel Functions and Their Applications: Solution to ...

Different parts of Bessel function theory are widely used when solving problems of acoustics, radio physics, hydrodynamics, atomic and nuclear physics and so on. Applications of Bessel functions to heat conduction theory, including dynamical and linked problems are very numerous.

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