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February 1963

Armed Services Technical Information Agency
Arlington Hall Station · Arlington 12, Virginia
PREFACE

This publication is a listing of reprints which concern research of interest to the Department of Defense. The publication has three (3) major parts:

The KWIC INDEX displays in context each significant word of a title alphabetically in the center of the column.

The BIBLIOGRAPHY consists of descriptions of the reprints, including the journals in which the articles appear.

The AUTHOR INDEX is an alphabetical listing of personal authors with references to the item numbers in the BIBLIOGRAPHY.

ASTIA will not supply copies of these reprints. Articles of interest should be sought in the appropriate journals.
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If we consider the problem of vibrations in a system, the behavior of the system can be described by its natural frequencies and modes. The natural frequencies are the eigenfrequencies of the system, and the modes correspond to the corresponding eigenfunctions. The system's response to an external force is determined by its fundamental frequency and the mode of vibration.

In the context of a mechanical system, the natural frequency is defined as the frequency at which the system oscillates without damping. It is the frequency at which the energy stored in the system is equal to the energy dissipated per cycle. The natural frequency is given by the formula:

$$ f_n = \frac{1}{2\pi} \sqrt{\frac{k}{m}} $$

where $k$ is the stiffness of the system and $m$ is the mass.

The mode of vibration is a specific pattern of motion that the system can assume. It is characterized by the distribution of displacement along the system. The modes of vibration are determined by solving the differential equation of motion for the system.

In the context of a waveguide, the natural frequencies and modes are determined by the boundary conditions and the wave equation. The natural frequencies are the eigenvalues of the wave equation, and the modes correspond to the corresponding eigenfunctions. The system's response to an external force is determined by its fundamental frequency and the mode of vibration.

In the context of an electronic circuit, the natural frequencies and modes are determined by the circuit elements and the boundary conditions. The natural frequencies are the eigenvalues of the circuit equations, and the modes correspond to the corresponding eigenfunctions. The system's response to an external force is determined by its fundamental frequency and the mode of vibration.

In conclusion, the natural frequencies and modes play a crucial role in the analysis and design of mechanical, electrical, and electronic systems. They determine the system's response to external forces and are used in the design of filters, oscillators, and other devices.
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