

**The system is initially in a zero state with no energy storage**



## Overview

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Explanation: When a system is initially relaxed, it means that there is no energy stored in the system at time  $n=0$ . The response of the system in this state is called the zero-state response.

## The system is initially in a zero state with no energy storage

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### continuous signals

The zero-state response corresponds to a system with no initial energy storage, which is the response of a causal LTI system caused only by

### Zero State Response: Guide to Circuit Analysis (Pro)

In the study of circuit dynamics, we begin by analyzing a machine at rest. This concept describes a system where all initial conditions are equal to zero, meaning no energy is stored in



### [zero-input response and zero-state response . Lesley's](#)

Understand the zero-input behavior provides interesting insight into a system. For example, if a system is disturbed momentarily from its rest position

### [If the system is initially relaxed at time \$n=0\$ and memory](#)

It is the response of the system to an input signal when there is no initial energy stored in the system. Explanation: When a system is initially relaxed, it means that there is no energy stored in the



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