

# Engineering the behavior of a di circuit

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**Abstract:** This paper presents a method for the design of a circuit that can be used to study the behavior of a system. The circuit is designed to be a simplified model of the system, and its behavior is compared to the behavior of the system. The results of the comparison are used to determine the parameters of the circuit. The circuit is then used to study the behavior of the system under various conditions. The results of the study are used to determine the behavior of the system under various conditions. The results of the study are used to determine the behavior of the system under various conditions.

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The first part of the study was a pre-test to determine the reliability of the measures. The pre-test was conducted with 12 participants. The results of the pre-test are presented in Table 1. The reliability of the measures was found to be high. The Cronbach's alpha for the measures was 0.92, 0.88, and 0.85, respectively.

## 2. Method

### 2.1 Participants

The participants were 120 students from a university in the United States. The participants were randomly assigned to three groups: Group 1 (40 participants), Group 2 (40 participants), and Group 3 (40 participants). The participants were given a pre-test before the main study.

### 2.2 Environment

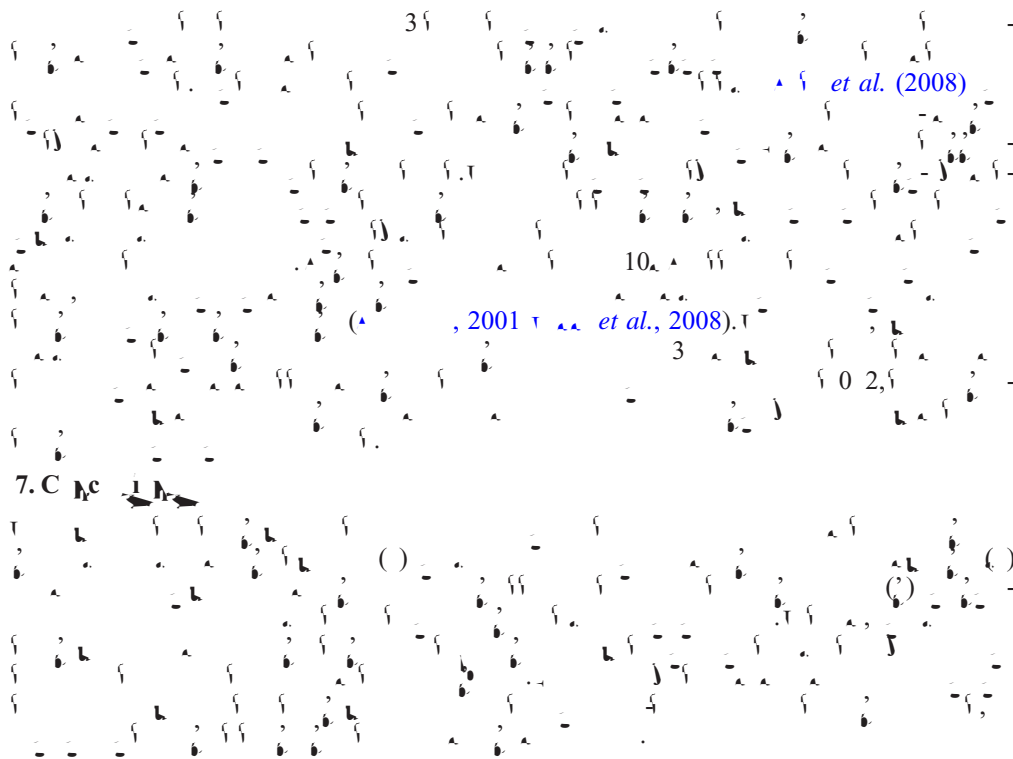
The study was conducted in a computer lab. The participants were given a pre-test before the main study. The pre-test was conducted in a computer lab. The results of the pre-test are presented in Table 1.











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Reference and

= (2009). 71, 164-173.  
 = (2003). = & 24, 145-147.  
 = (2007). 8, 294-304.  
 = (2008). = 105, 13174-13178.  
 = (2001). = 109, 1101-1109.  
 A di Pe ce i fS dS ce / = (2008). = 143-149.  
 = (1984). = 84, = 9, 328-331.  
 = (2008). = 124, 1146-1158.  
 = (1998). = 60, 1228-1242.