

# Understanding Basic Concept of Electrical and Electronic Systems

Asadullah Shah



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# **UNDERSTANDING BASIC CONCEPT OF ELECTRICAL AND ELECTRONIC SYSTEMS**

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**Editors**

Asadullah Shah



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# 21. VOLTAGE FOLLOWER

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Asadullah Shah and Khamran Khowaza

Department of Computer Science, Kulliyah of Information and  
Communication Technology,  
International Islamic University of Malaysia,  
Malaysia

## 21.0 Abstract:

Voltage follower circuits come into two types a single transistor based and operational amplifier based circuit. A transistor based voltage follower is a simple circuit that involves a single transistor and resistors connected in a circuit to maintain the operations (buffering) of the values. However, the operational amplifier (Op-amp) circuit makes use of ICs. The gain of the circuit is very nearly 1.00. It is useful because its input resistance is very high. It is often used as a buffer between devices to avoid loading errors.

## 21.1 VOLTAGE FOLLOWER

The voltage follower configuration is a special case of the non-inverting amplifier where all the output voltage is feedback to the inverting input by straight connection, as shown in fig.