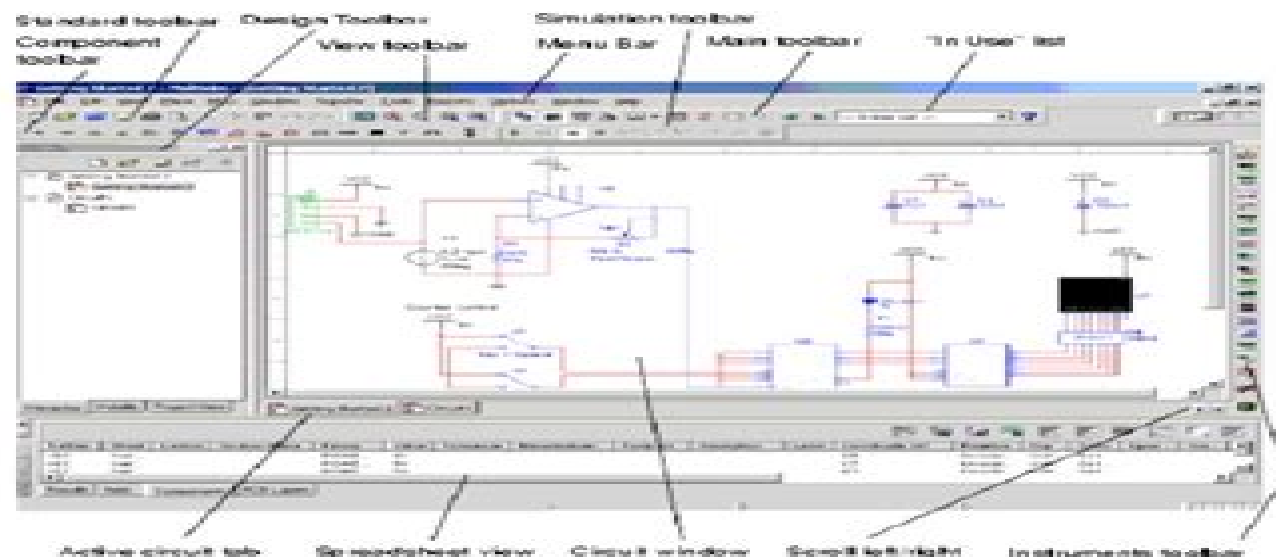


INTRODUCTION TO MECHATRONICS

Mechatronics is defined as the interdisciplinary field of engineering and design methodology. It deals with the design of products whose function relies on the integration of mechanical, electrical and electronics components connected by a control scheme. Mechatronics is a system-level approach to designing electro-mechanical systems that merges mechanical, electrical, control system and embedded software design. Mechatronics plays an important role in the design manufacturing and maintenance of a wide range of engineering products and process. Mechatronics provides solutions that are efficient and reliable systems.

Introduction to the Multisim Interface

Multisim is the schematic capture and simulation application of National Instruments Circuit Design Suite, a suite of EDA (Electronics Design Automation) tools that assists you in carrying out the major steps in the circuit design flow. Multisim is designed for schematic entry, simulation, and feeding to downstage steps, such as PCB layout.



Multisim's user interface consists of the following basic elements:

- **Menus** are where you find commands for all functions.
- The **Standard toolbar** contains buttons for commonly-performed functions
- The **Simulation toolbar** contains buttons for starting, stopping, and other simulation functions
- The **Instruments toolbar** contains buttons for each instrument.
- The **Component toolbar** contains buttons that let you select components from the Multisim databases for placement in your schematic.

Mechatronics Lab Manual Diploma

Camilla Rothe



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