

RoboAnalyzer

A SIMULATION
AND
RESEARCH
SOFTWARE FOR
ROBOTS

Robotics is a subject that deals with the design, analysis, fabrication, and usage of robots for various automated and semi-automated tasks. The concepts taught in a typical robotics course are generally difficult to perceive just by looking at textbook figures. Hence, a need for simulation software and Hardware for teaching and learning robotics is of prime importance.

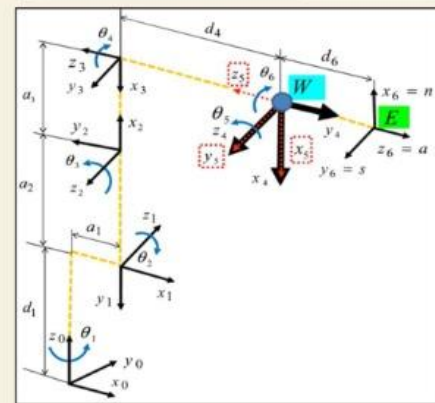
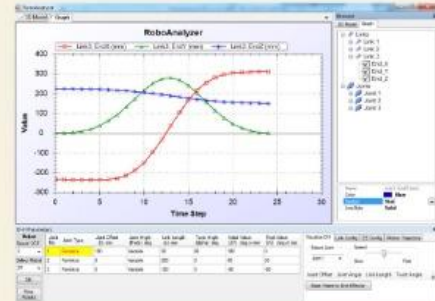
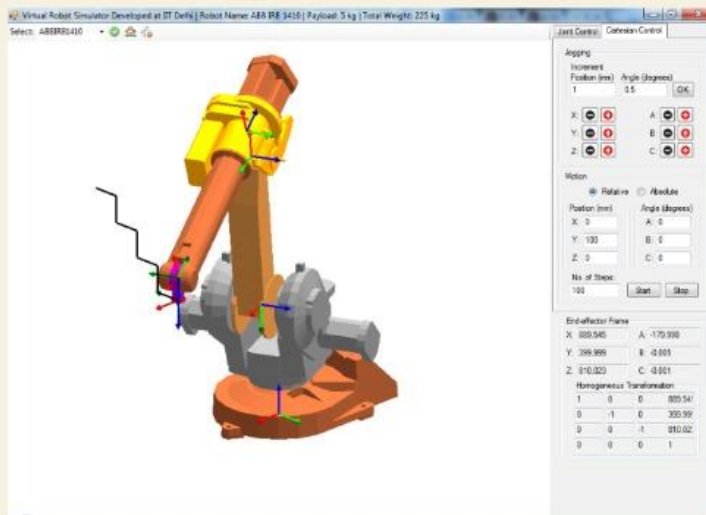
RoboAnalyzer® is a 3D model-based software that can be used to teach and learn robotics concepts. It is an evolving product developed in Mechatronics Lab, Department of Mechanical Engineering at IIT Delhi, India.

FEATURES

- ☛ Serial manipulator with prismatic and revolute joints
- ☛ DH parameters as input
- ☛ 3D model generated based on DH parameters
- ☛ Visualize DH parameters
- ☛ Forward Kinematics
- ☛ Inverse Kinematics
- ☛ Inverse Dynamics (Based on ReDySim Algorithm)
- ☛ Forward Dynamics (Based on ReDySim Algorithm)
- ☛ Animation with trace of end-effector
- ☛ Plot graphs
- ☛ Virtual Robot Module (17+ CAD Models of Industrial Robots)
 1. -level jogging
 2. Cartesian-level jogging
 3. Cartesian straight-line motion
 4. Integration with MATLAB (Robotics Toolbox) and MS Excel
- ☛ Save and Open Robot Models

Benefits

- RoboAnalyzer has unique modules for visualization, kinematics, dynamics, and plotting, which can help Engineers to correlate the physics of a robot to the mathematics involved.
- 3D animation environment can help demonstrate the coordinate transformations associated with the four DH parameters, that is, joint offset (b), joint angle (θ), link length (a), and twist angle (α) of two neighboring links coupled by a one-degree-of-freedom (DOF) joint, and how they correspond to the physical architecture of the robot.



➤ The perfect understanding of robot behaviour can be studied through RoboAnalyzer

➤ The best software tool to perform the virtual simulation to work on physical Robots available in colleges.

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