



Specifications :

- The twin-rotor system demonstrates the principles of a non-linear MIMO (multiple input, multiple output) system, with significant cross-coupling.
- Its behaviour resembles a helicopter, but the angle of attack of the rotors is fixed and the aerodynamic forces are controlled by varying the speeds of the motors.
- Significant cross-coupling is observed between the actions of the rotors, with each rotor influencing both angle positions.
- Using MATLAB™ together with the detailed training manuals supplied by Feedback and an Advantech PCI card which creates an impressive digital control system development environment, the user is guided through the design process using phenomenological process models, dynamics analysis, discrete models identification, controller design, controller tests on the model, controller implementation in real-time applications, implementation of various control strategies and data visualization.

Features

- Visually & technical interesting control problem
- Non-Linear model
- MATLAB compatibility (not supplied)
- Excellent for demonstration laboratory work

Excellent model for more advanced research work including designing your own control systems

Curriculum Coverage

- 1-degree of freedom (DOF), PID stabilising & tracking horizontal controller
- 1-DOF, PID stabilising & tracking vertical controller with gravity compensation
- 2-DOF, PID stabilising & tracking controller

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Parameter tuning
- Coupled dynamics analysis
- Dynamics decoupling
- Phenomenology analysis
- Model identification

Foot Print			
	Dimensions (L × W × H)	390mm X 257mm X 207mm	15.4" X 10.1" X 8.2"
	Weight	~7kg	~15.4lbs
Software Requirements			
	Operating System	Windows 7, 8, 10 (64bit), OSX 10.11+	Windows 7, 8, 10 (64bit), OSX 10.11+
	Compatible file format	Garber	Garber
	Connection type	Wired USB	Wired USB

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