



Modelling and Control of Mini-Flying Machines (Advances in Industrial Control)

Pedro Castillo Garcia, Rogelio Lozano, Alejandro Enrique Dzul

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Modelling and Control of Mini-Flying Machines is an exposition of models developed to assist in the motion control of various types of mini-aircraft:

- Planar Vertical Take-off and Landing aircraft;
- helicopters;
- quadrotor mini-rotorcraft;
- other fixed-wing aircraft;
- blimps.

For each of these it propounds:

- detailed models derived from Euler-Lagrange methods;
- appropriate nonlinear control strategies and convergence properties;
- real-time experimental comparisons of the performance of control algorithms;
- review of the principal sensors, on-board electronics, real-time architecture and communications systems for mini-flying machine control, including discussion of their performance;
- detailed explanation of the use of the Kalman filter to flying machine localization.

To researchers and students in nonlinear control and its applications **Modelling and Control of Mini-Flying Machines** provides valuable insights to the application of real-time nonlinear techniques in an always challenging area.

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