

Everything is under control

# control-theory-fans

## Differential Flatness in Control Systems

The collage features several key elements:

- Control Loop:** A block diagram showing a feedback loop with a controller block labeled 'P'. It includes 'Inputs', 'Outputs', and 'Feedback' paths.
- Bode Plot:** A graph showing the magnitude response of a system. The x-axis is labeled  $\omega_0 t / \text{rad}$  and the y-axis is labeled  $(M)$ . Several curves are shown, labeled with damping ratios  $\zeta = 0.1, 0.2, 1, 2$ .
- Cart-Pole System:** A diagram of a cart-pole system with a cart of mass  $M$  and a pole of mass  $m$  and length  $l$ . The angle of the pole is  $\theta$ . A force  $F$  is applied to the cart. A coordinate system  $(x, y)$  is shown.
- Visual Elements:** A clock, a green landscape with red dots, a lightbulb, colorful wavy lines, and a blue hexagonal logo with a white 'Q' and two white plus signs.

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# Dfig Control Using Differential Flatness Theory And

**Lei Shi**



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