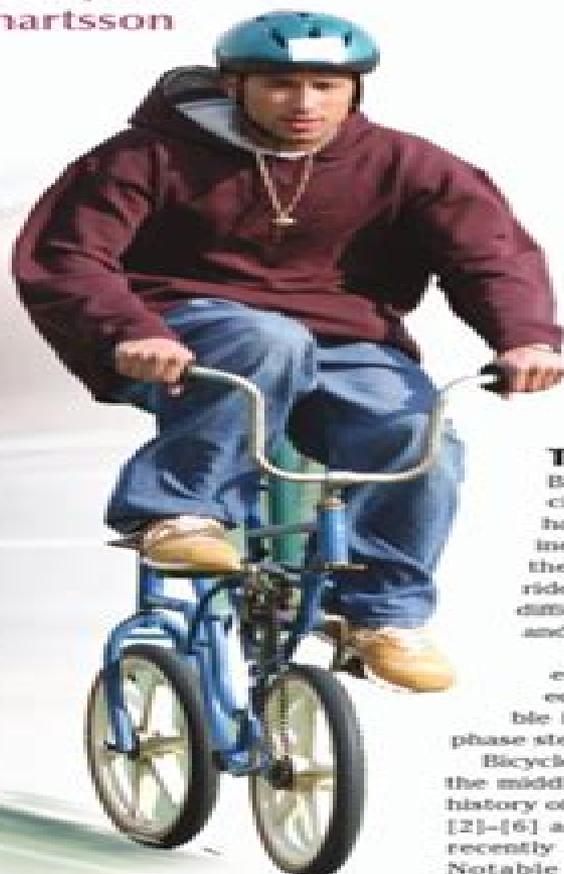


Bicycle Dynamics and Control

By Karl J. Åström,
Richard E. Klein, and
Anders Lennartsson

Adapted bicycles for
education and research



This article analyzes the dynamics of bicycles from the perspective of control. Models of different complexity are presented, starting with simple ones and ending with more realistic models generated from multibody software. We consider models that capture essential behavior such as self-stabilization as well as models that demonstrate difficulties with rear wheel steering. We relate our experiences using bicycles in control education along with suggestions for fun and thought-provoking experiments with proven student attraction. Finally, we describe bicycles and clinical programs designed for children with disabilities.

The Bicycle

Bicycles are used everywhere—for transportation, exercise, and recreation. The bicycle's evolution over time has been a product of necessity, ingenuity, materials, and industrialization. While efficient and highly maneuverable, the bicycle represents a tantalizing enigma. Learning to ride a bicycle is an acquired skill, often obtained with some difficulty; once mastered, the skill becomes subconscious and second nature, literally just “as easy as riding a bike.”

Bicycles display interesting dynamic behavior. For example, bicycles are statically unstable like the inverted pendulum, but can, under certain conditions, be stable in forward motion. Bicycles also exhibit nonminimum phase steering behavior.

Bicycles have intrigued scientists ever since they appeared in the middle of the 19th century. A thorough presentation of the history of the bicycle is given in the recent book [1]. The papers [2]–[6] and the classic book by Sharp from 1896, which has recently been reprinted [7], are good sources for early work. Notable contributions include Whipple [4] and Carvallo [5], [6], who derived equations of motion, linearized around the

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