Introduction to the Sugar Cane Crushing Mill

A video extravaganza
Sugar cane crushing mill

Two-input two-output control problem
Part of a sequence of five mills crushing the same material
  Separation of fiber and juice
    Juice to clarifier and crystalizer, fiber to boiler
There is a complex reverse flow of juice
  Optimize individual mills then process

Overall aim is to improve extraction efficiency
Tied to maximizing the average torque level
  Work done in breaking the cell structure of the cane
    Torque is an real-time performance measure
  Water retention is a slower more reliable measure
Plane Creek Sugar Milling

July 28, 1998