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Mobile Robotics offers comprehensive coverage of the essentials of the field suitable for both students and practitioners. Adapted from Alonzo Kelly's graduate and undergraduate courses, the content of the book reflects current approaches to developing effective mobile robots. Professor Kelly adapts principles and techniques from the fields of mathematics, physics, and numerical methods to ...

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a slightly more abstract (mathematical) formulation of the kinematics, dynamics, and control of robot manipulators. The current book is an attempt to provide this formulation not just for

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a single robot but also for multifingered robot hands, involving multiple cooperating robots. It

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mathematics. 0.1 Preliminaries: Numbers and Sets Rather than considering algebraic (and at times philosophical) discussions like "What is a number?," we will rely on intuition and mathematical common sense to define a few sets: The natural numbers  $N = \{1, 2, 3, \dots\}$  The integers  $Z = \{\dots, -2, -1, 0, 1, 2, \dots\}$  The rational numbers  $Q = \{a/b \dots$

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numbers, and numbers means maths.

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Mathematical models can project how infectious diseases progress to show the likely outcome of an epidemic and help inform public health interventions. Models use basic assumptions or collected statistics along with mathematics to find parameters for various infectious diseases and use those parameters to calculate the effects of different interventions, like mass

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vaccination programmes.

## **Mathematical modelling of infectious disease - Wikipedia**

where is the inertia tensor of the manipulator, contains centrifugal and Coriolis terms, is the gravity force exerted on the manipulator links, and is the joint friction. Model (a2) can be extended to incorporate actuator inertia, actuator dynamics and joint elasticity. A great number of control strategies has been investigated from 1975 onwards in order to provide accurate motion control.

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