

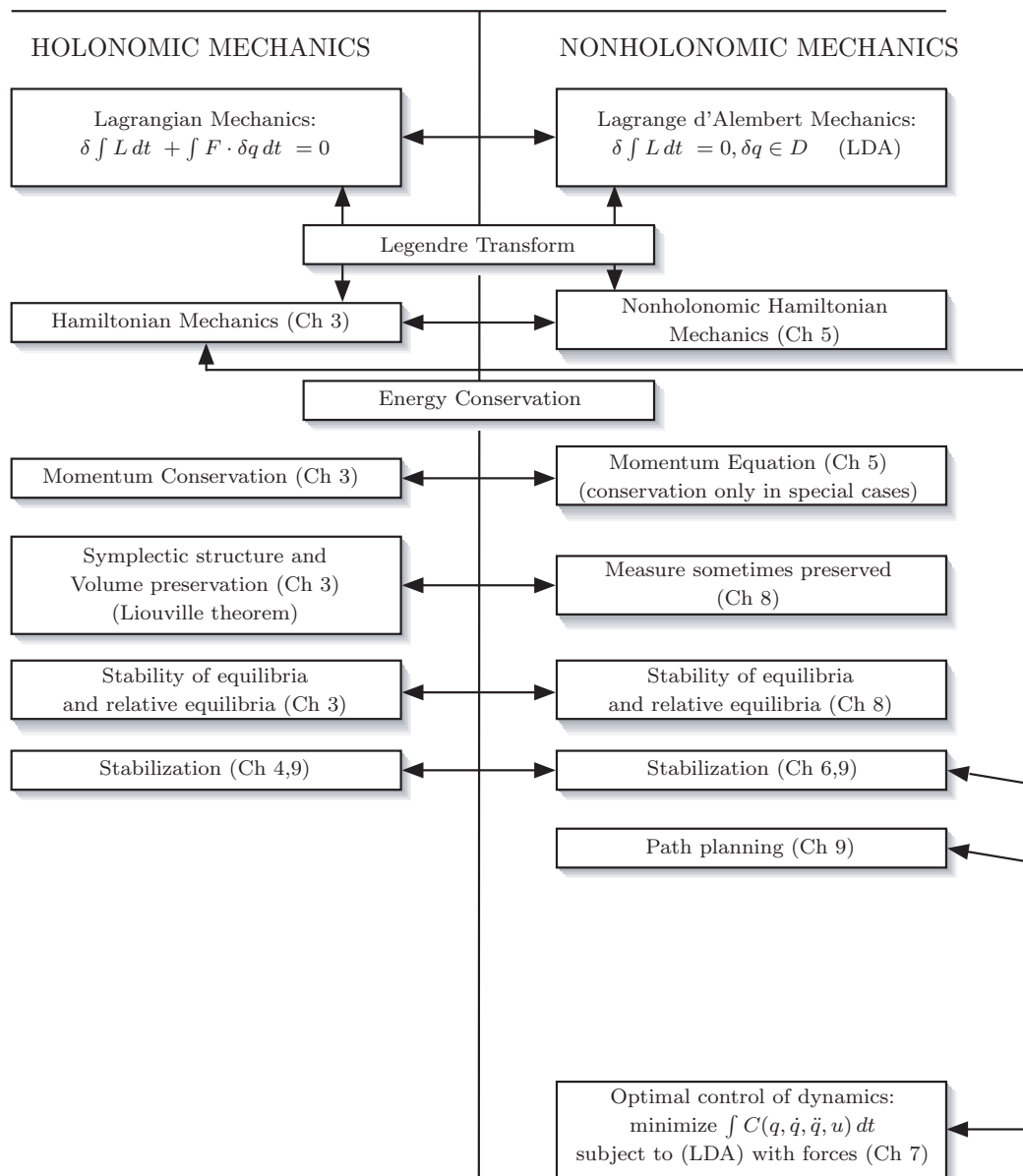
A Diagram for the Book

In Chapter 1 we will introduce many of the basic ideas of mechanics, nonholonomic mechanics, control, and optimal control, together with a number of illustrative physical examples. These basic ideas will be explained, expanded on, and made rigorous in subsequent chapters. In addition, the examples discussed will occur in different contexts as the exposition develops. A detailed path through this book is given in the preface.

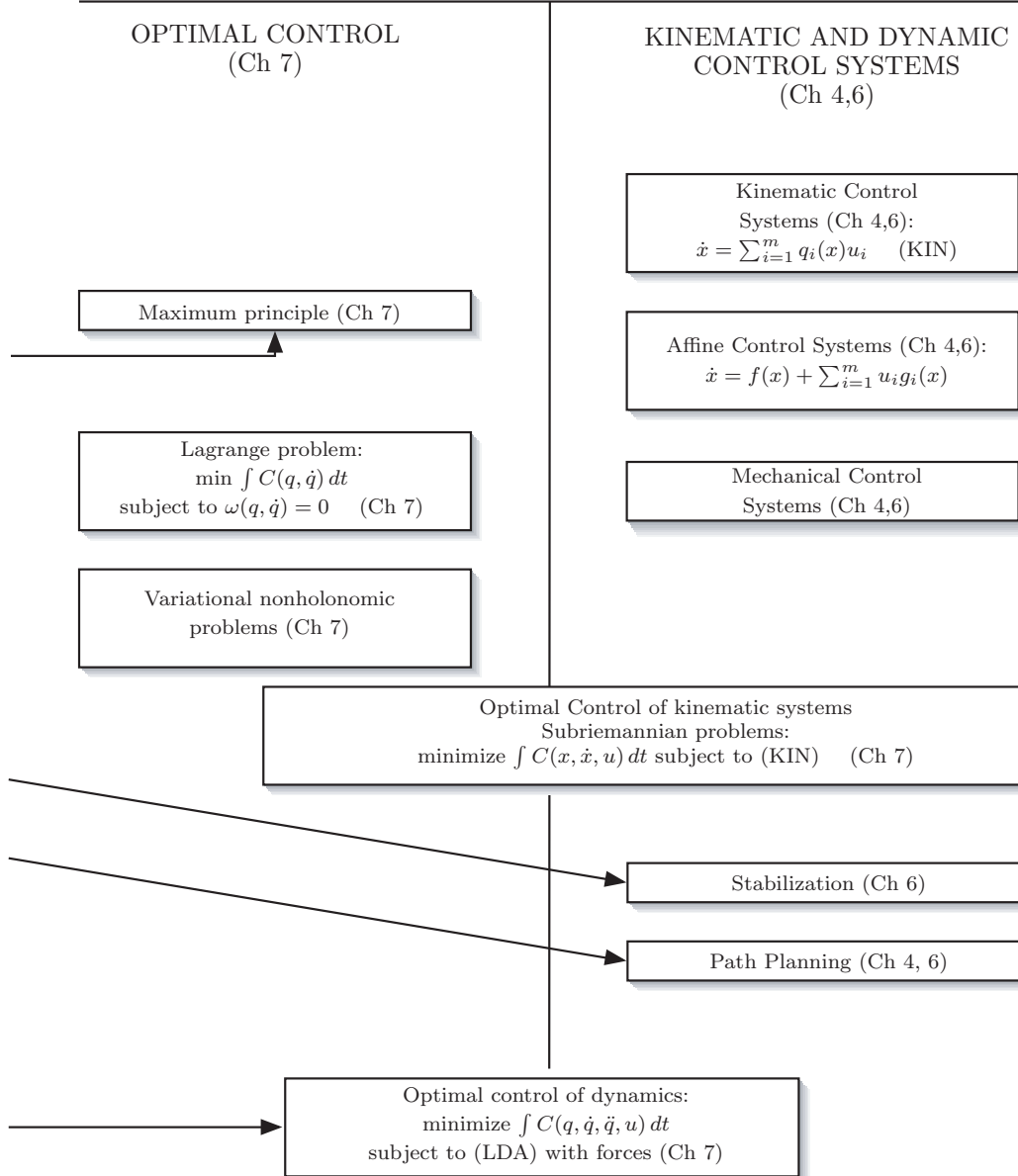
In the following two pages we present a diagram which attempts to tie together the various key threads in our exposition. These topics and the links between them will be clarified in the upcoming chapters of the book.

NEWTONIAN MECHANICS (Ch 3)

$$F = ma$$



CONTROL SYSTEMS (Ch 6,7)
 $\dot{x} = f(x, u)$





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Nonholonomic Mechanics and Control

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