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## **B11 - ZAYDEN LAMBERT**

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This book uses solved problems and exercises to understand the underlying concepts of classical mechanics and covers rather difficult concepts, including non-inertial reference frames, rigid body motion, variable mass systems, basic tensorial algebra, and calculus

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The chapters in this LATEX version are in the same order as the weekly lectures, but I've merged weeks together, and sometimes split them over chapter, to obtain a more textbook feel to these notes. For reference, the weekly lectures are outlined here. Week 1: (Mar. 28, 30, Apr. 1)|The Lagrangian approach to classical mechanics:

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In the classical Kepler problem, Lambert's theorem holds which allows a reduction of the number of variables for calculating the passing time along a an arc on the orbit.

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The goal of classical mechanics is to provide a quantitative description of the motion of physical objects. Like any physical theory, mechanics is a blend of definitions and postulates. In describing this theory it is convenient to first introduce the concept of a point object (a particle) and to start by considering the motion of a single ...

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