

Fundamentals of Physics II

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NAGOYA U-G30 FUNDAMENTALS OF PHYSICS COURSES

Book / WileyPlus: Halliday, Fundamentals of Physics, 10e

- **Fundamentals of Physics I**

- Newton mechanics – mostly linear motion

- **Fundamentals of Physics II**

- Rotational motion & static equilibrium
- Thermodynamics; Gravitation; Oscillations

- **Fundamentals of Physics III**

- electromagnetism

- **Fundamentals of Physics IV**

- Waves and optics

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FUNDAMENTALS OF PHYSICS II

(PART ON THERMO, GRAVITATION & OSC; TAUGHT BY F. TAMA)

Book / WileyPlus: Halliday, Fundamentals of Physics, 10e

- 1. Temperature/Heat/Calorimetry/1st law (Chapter 18)**
- 2. The Kinetic Theory of Gases (Chapters 19)**
- 3. Entropy and the Second Law of Thermodynamics (Chapter 20)**
- 4. Oscillation (Chapter 12)**
- 5. Gravitation (Chapter 13)**

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(PART ON ROTATION AND STATIC EQUILIBRIUM; TAUGHT BY B. GELLOZ)

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- 1. Pure rotation (chapter 10)**
- 2. Torques, angular momentum and Newton laws for rotation (Chapters 10&11)**
- 3. Rolling (Chapter 11)**
- 4. Equilibrium (Chapter 12)**