The University of Tokushima (2011)) Graduate School of Advanced Technology and Science) Electrical and Electronic Engineering (Master) [=>Japanese]

# **Advanced Plasma Engineering**

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2 units (selection)

**Target** $\rangle$  The purpose of the lecture is to give an introduction to the behavior of plasmas and its treatment.

**Outline**> The elements of plasma physics and chemistry are introduced in this lecture.

Style> Lecture and excercise

#### Keyword plasma, nuclear fusion

#### Goal

- 1. Understanding on properties of plasmas
- 2. Understanding on an introduction to theories of plasma physics

### $\textbf{Schedule}\rangle$

- **1.** Single-particle motions (1)
- **2.** Single-particle motions (2)
- **3.** Single-particle motions (3)
- 4. Plasma as fluids (1)
- 5. Plasma as fluids (2)
- 6. Waves in plasmas (1)
- 7. Waves in plasmas (2)
- 8. Waves in plasmas (3)
- 9. Diffusion and resistivity (1)
- **10.** Diffusion and resistivity (2)
- **11.** Equilibrium and stability (1)
- 12. Equilibrium and stability (2)
- 13. Introduction to controlled nuclear fusion (1)
- 14. Introduction to controlled nuclear fusion (2)
- **15.** Introduction to controlled nuclear fusion (3)
- 16. Conclusions and future problems

Contents http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216870

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