Title	My favorite books
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私の本棚
My favorite books

Contact with the external environment and towards robust motion control

Practical control engineering

My academic advisor while I was a student, Professor Kouhei Ohnishi, wrote this book. The greatest highlight of this book is its coverage of the construction method of a robust control system based on observer theory, but it also covers methods to identify parameters as well as modern control, making this a book I highly recommend. This book, together with "Basics of control engineering" of the same series, are necessary for all control engineers to read.

Creating force with electricity

Electromechanical Dynamics I

This is a textbook that was used as part of the core curriculum at the Massachusetts Institute of Technology. It is made up of 3 volumes: Electromechanical Dynamics Part I: Discrete Systems; Electromechanical Dynamics Part II: Fields, Forces, and Motion; and Electromechanical Dynamics Part III: Elastic and Fluid Media. It is renowned as being an excellent reference book.

Creating rotation

Theory of electric motors and generators

This book is used at my laboratory study session held every spring to teach basic theory. In addition to explanations and diagrams that can be easily understood, videos can be viewed on the internet, making this book popular among students.

Controlling rotation

Modern Control Engineering Fifth Edition

I read this book when I joined a laboratory as a student to learn the basics of control engineering. This book is written in English so it may feel challenging to beginners, but you will get to know basic technical terms in English and you will learn a lot from it.

Transmitting electricity

Semiconductor Power Electronics

Professor Atsuo Kawamura of Yokohama National University who gave me a lot of assistance while I was working there translated this book. He has also written other books such as "Introduction to power electronics: from the basics to its practical use (Corona Publishing Co., Ltd.)" and "Modern power electronics (Suri Kogakusha)" from which you can learn a lot. I recommend these books.

These are not technical books, but...

I also like "I'm not academically able" (Amy Yamada) and "How will you live?" (Genzaburo Yoshino). These books make me realize that I shouldn't be brainwashed into a stereotypical way of thinking.