

Title	My favorite books
Sub Title	
Author	
Publisher	Faculty of Science and Technology, Keio University
Publication year	2014
Jtitle	New Kyurizukai No.17 (2014. 10) ,p.7- 7
JaLC DOI	
Abstract	
Notes	
Genre	Article
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=KO50001003-00000017-0007

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私の My favorite books 本棚



● MANUFACTURING AUTOMATION

This book focuses on automation technologies of machining operation, including the prevention of chatter vibration – the so-called “hard-to-attain longtime challenge” in machining. It allows the reader to appreciate the enjoyment of expressing processes and machine tools by mathematical models. The author is Prof. Altintas of The University of British Columbia.

● Applied Control Engineering

This book was coauthored by Prof. Kouhei Ohnishi of our Department of System Design Engineering and Prof. Yoichi Hori of the University of Tokyo. Though it may be rather difficult, the reader can learn modern control technology through to motion control based on disturbance observer. For beginners who would like to study control engineering from now, I recommend “Control Engineering for Precision Positioning and Transfer System Design” authored by Prof. Atsushi Matsubara of Kyoto University.

● Basics of Cutting and Abrasive Processes

Coauthors of this book are Prof. Tönshoff and Prof. Denkena of Leibniz Universität Hannover in Germany where I studied in 2013. Immediately prior to my return to Japan, Prof. Tönshoff presented me with this book in person, which I treasure. It gives a comprehensive account – from basic theories to cutting-edge technologies – of cutting and abrasive processing as the backbone of manufacturing.

● Norwegian Wood (novel)

A Spanish researcher recommended me to read this novel. The world view that “Life is a part of death” underlies this love story that develops among two heroines and the hero Watanabe, who symbolize life and death. This novel is widely read even in Europe, attesting to its deep connotations about life and death. In this Japanese version, names of some characters are expressed with “katakana” (angular Japanese syllabary) and others with “kanji” (Japanese ideograph). How is this issue dealt with in the English version, I wonder.

● Machining Systems

This book on machining systems was authored by Prof. Ichiro Inasaki, former dean of Keio Faculty of Science and Technology. It explains, in an easy-to-understand way, machining systems from the basics of cutting/abrasive processing and machine element design through automation and intelligent technologies. Reading this book gave me the momentum to take up research into intelligent machine tools.

● the PATH of PRECISION

This picture-book-like reference book was authored by Prof. Dornfeld of UC Berkeley. The first half of this volume uses a number of illustrations and is an easy-to-understand account of historical developments in machine tools. The latter half is a more technical description of multi-axis machine tools and ultra-fine processing technology. The book’s design is stylish.

● BRUTUS (GOOD COFFEE)

Somehow, most of our lab members are coffee lovers. So someone never fails to make and serve coffee for me after lunch. At around 3:00 p.m., all of us take another coffee break. Every year our lab sends a few students to study in Germany and a few German students come to our lab in reciprocation. Maybe due to this international exchange, German-style coffee is popular at our lab. Speaking of German coffee, I must mention Dallmayer. It’s really tasty.