

Please complete the form and return it in its entirety to:

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CONFIDENTIAL PRE-PUBLICATION REVIEW

Title: Industrial PID Controller Tuning

Author: José D. Rojas, Orlando Arrieta and Ramon Vilanova

1 Is there a need for such a book at this level?

Yes, a broad community of people in education and research like such books

2 Is the author sufficiently experienced and authoritative?

yes

3 Does the sample material suggest that this treatment of the subject will be:

a. up to date? yes

b. technically correct? yes

4 Would the book be appropriate for use by: Yes No Comment

a. Graduate and post graduate students ☒ ☐

b. Researchers ☒ ☐

c. Lecturers ☒ ☐

d. Others (please specify)

5 Would there be a significant market for the book in:

a. Europe (including UK) I would expect some interest, but I have no experience with something as "significant market"

b. USA I would expect some interest, but I have no experience with something as "significant market"

c. Other (please specify) China, India, Japan,...?

6 Would this book face strong competition from any others already published? If so, please give details (author, title, date, publisher and, if possible, price and extent).

Surprisingly, contributions to PID optimization are to be found mostly in conference and journal contributions, in description of different toolboxes, on web, in technical reports, or in PhD thesis. I do not know specialized books in this area. Some exceptions, as:

Boyd, S. and C. Barratt (1991). Linear Controller Design — Limits of Performance.

Prentice-Hall.

Boyd, S. and L. Vandenberghe (2004). Convex Optimization. Cambridge University Press.

Brosilow, C. and B. Joseph (2002). Techniques of Model-Based Control . Prentice Hall PTR, pp. 221–239.

Walters, F. H., L. R. Parker Jr, S. L. Morgan, and S. N. Deming (1991): Sequential Simplex Optimization . CRC Press LLC.

do not represent a really strong competition.

Are there any related Springer titles (that you know of) of which the author should be made aware (Please list up to three titles).

I have mostly seen just collections of chapters from different authors. Books as Nocedal J. and Wright S.J. Numerical Optimization. Springer, 1999, or

J. Mikles and M. Fikar, Process Modelling, Identification, and Control. Berlin: Springer, 2007
do not focuss on PID control optimization.

- 7 What term(s) would you use to find this book in a Google search? (This will help to establish appropriate keywords for the title.) Preferably these should be combinations of more than one word.

multi-objective optimization of PID control

- 8 Would you buy this book or recommend it for purchase?
If not, what changes would you suggest in terms of structure, content and approach?

I may recommend it to colleagues dealing with similar problems. I may also buy it to be familiar with their results, but I do not prefer such optimization based approaches and I am trying to develop more efficient alternatives.