



Identification of a Virtual Sensor Model for Diesel Engine Emissions by Means of Optimal Input Design

By Markus Hirsch

Trauner Verlag Jan 2012, 2012. Buch. Book Condition: Neu. 20.8x14.6x cm. Neuware - Current emission measurements of a combustion engine are often required for optimal engine control or for on board diagnosis (OBD). In the case of Diesel engines, nitrogen oxides (NOx) as well as particulate matter (PM) form the critical emissions which are crucial to meet the legislative emission limits. Besides the possibility to measure these emissions by means of physical sensors, virtual sensors provide an alternative by estimating these values. The basis of such sensors are mathematical models which simulate the emission formation. This work deals with the data-based modeling of these emissions. The aim of the work is to design experiments done on an engine test bench such that the variance of the identified parameters becomes minimal. Consequently, even with few data it is possible to identify accurate models. For this approximation, polynomial NARX models have been used. By increasing the polynomial degree, these models are able to approximate complex nonlinear dynamic systems. 170 pp. Englisch.



[DOWNLOAD PDF](#)



[READ ONLINE](#)
[5.73 MB]

Reviews

This publication is amazing. It is definitely basic but shocks in the fifty percent of your publication. You wont feel monotony at anytime of your own time (that's what catalogues are for concerning if you question me).

-- Prof. Kirk Cruickshank DDS

This kind of book is every little thing and taught me to looking ahead of time and a lot more. I am quite late in start reading this one, but better then never. I found out this book from my dad and i encouraged this pdf to find out.

-- Justus Hettinger

Relevant Kindle Books



Talking Digital: A Parent's Guide for Teaching Kids to Share Smart and Stay Safe Online

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. It is time for the digital talk. Today, kids are growing up in a wired world. Their online interactions, the good and the bad,...



With Chatwin: Portrait of a Writer

Knopf. Hardcover. Book Condition: New. 0679410333 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with FREE tracking!! * I...



Barabbas Goes Free: The Story of the Release of Barabbas Matthew 27:15-26, Mark 15:6-15, Luke 23:13-25, and John 18:20 for Children

Paperback. Book Condition: New.



Hoops to Hippos!: True Stories of a Basketball Star on Safari

National Geographic Kids, United Kingdom, 2015. Paperback. Book Condition: New. 190 x 130 mm. Language: English . Brand New Book. NBA star Boris Diaw of the San Antonio spurs takes young readers on safari as he explores his off-court passion: wildlife photography!...



Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.



Fun to Learn Bible Lessons Preschool 20 Easy to Use Programs Vol 1 by Nancy Paulson 1993 Paperback

Book Condition: Brand New. Book Condition: Brand New.
