1. Record Nr. UNINA9910160285903321 Autore Feyel Philippe Titolo Robust control optimization with metaheuristics / / Philippe Feyel Pubbl/distr/stampa London, [England]:,: ISTE,, 2017 ©2017 **ISBN** 1-119-34095-0 1-119-34094-2 Descrizione fisica 1 online resource (453 pages): illustrations, tables Collana Systems and Industrial Engineering Robotics Series Disciplina 620.0015196 Soggetti Heuristic programming Mathematical optimization Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes bibliographical references and index. Nota di bibliografia Sommario/riassunto In the automotive industry, a Control Engineer must design a unique control law that is then tested and validated on a single prototype with a level of reliability high enough to to meet a number of complex specifications on various systems. In order to do this, the Engineer uses an experimental iterative process (Trial and Error phase) which relies heavily on his or her experience. This book looks to optimise the methods for synthesising servo controllers ny making them more direct and thus quicker to design. This is achieved by calculating a final

controller to directly tackle the high-end system specs.