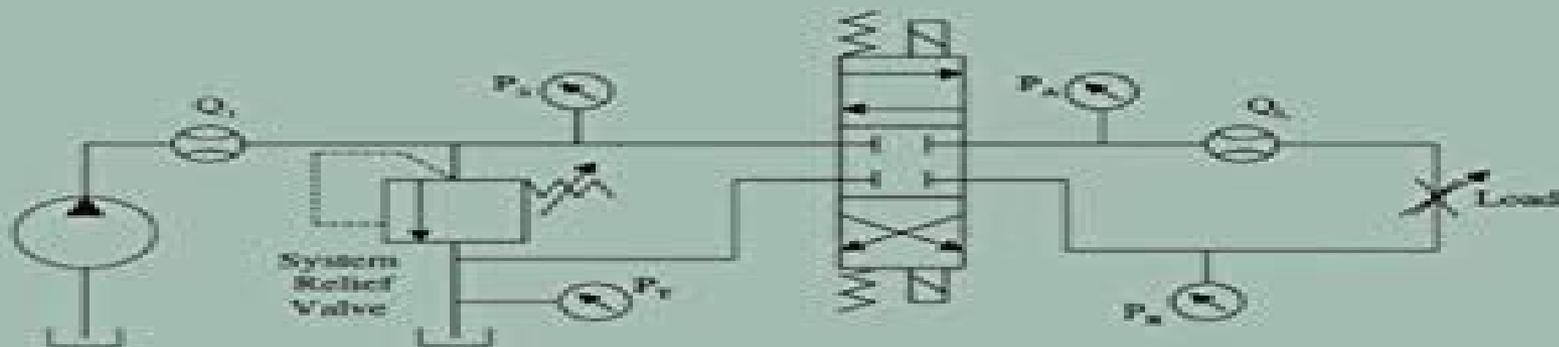


# Control Strategies for Dynamic Systems

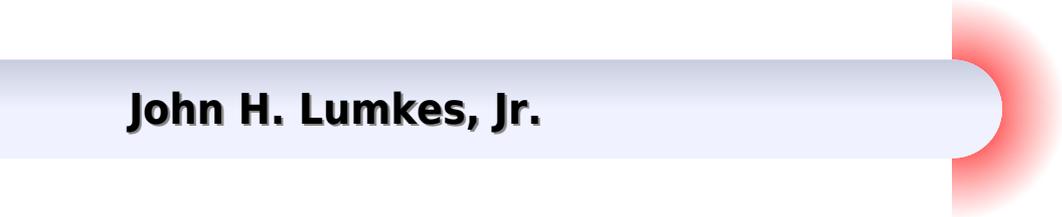
## Design and Implementation



John H. Lumkes, Jr.

# Control Strategies For Dynamic Systems Design And Implementation

**John H. Lumkes, Jr.**



## **Control Strategies For Dynamic Systems Design And Implementation:**

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## **Control and Dynamic Systems V57: Multidisciplinary Engineering Systems: Design and Optimization Techniques and Their Application** C.T.

Leonides, 2012-12-02 **Control and Dynamic Systems Advances in Theory and Applications Volume 57 Multidisciplinary Engineering Systems Design and Optimization Techniques and their Application** deals with techniques used in the design and optimization of future engineering systems Comprised of 11 chapters this book covers techniques for improving product design quality in multidisciplinary systems These techniques include decomposition techniques for synthesis process optimization for aircraft systems actuator and sensor placement and robust techniques in system design and control process Students research workers and practising engineers will find this book invaluable

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[Vehicles](#) National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee to Assess Fuel Economy Technologies for Medium- and Heavy-Duty Vehicles, 2010-08-30 **Technologies and Approaches to Reducing the Fuel Consumption of Medium and Heavy Duty Vehicles** evaluates various technologies and methods that could improve the fuel economy of medium and heavy duty vehicles such as tractor trailers transit buses and work trucks The book also recommends approaches that federal agencies could use to regulate these vehicles fuel consumption Currently there are no fuel consumption standards for such vehicles which account for about 26 percent of the transportation fuel used in the U S The miles per gallon measure used to regulate the fuel economy of passenger cars is not appropriate for medium and heavy duty vehicles which are designed above all to carry loads efficiently Instead any regulation of medium and heavy duty vehicles should use a metric that reflects the efficiency

with which a vehicle moves goods or passengers such as gallons per ton mile a unit that reflects the amount of fuel a vehicle would use to carry a ton of goods one mile This is called load specific fuel consumption LSFC The book estimates the improvements that various technologies could achieve over the next decade in seven vehicle types For example using advanced diesel engines in tractor trailers could lower their fuel consumption by up to 20 percent by 2020 and improved aerodynamics could yield an 11 percent reduction Hybrid powertrains could lower the fuel consumption of vehicles that stop frequently such as garbage trucks and transit buses by as much 35 percent in the same time frame

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