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Optimal Design and Control:

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Comparative optimal design and control of two alternative approaches for separating heterogeneous mixtures isopropyl alcohol-isopropyl acetate-water with four azeotropes. Separation and Purification Technology 2019, 225, 1-17. DOI: 10.1016/j.seppur.2019.05.061.

Optimal Design and Effective Control of Triple-Column ...

1. Introduction. Since the seminal work of Bendsoe and Kikuchi , topology optimization, which aims at designing innovative and lightweight products by distributing material within a prescribed design domain in an optimal way, has reached a

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certain level of maturity and become a well-established research area nowadays. One can refer to the papers , , and the references therein for the state-of ...

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As optimization problems related to optimal design and control of GSHP systems are often highly nonlinear, dynamic and restricted by a number of constraints, several optimization techniques including Nelder-Mead method [40], response surface method [56], dynamic programming [57], EAs [37] and genetic algorithms (GAs) [58] have been commonly used to solve the optimization problems for GSHP

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10.1021/acs.iecr.9b00466.

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In the design of experiments, optimal designs (or optimum designs) are a class of experimental designs that are optimal with respect to some statistical criterion. The creation of this field of statistics has been credited to Danish statistician Kirstine Smith.. In the design of experiments for estimating statistical models, optimal designs allow parameters to be estimated without bias and with ...

Optimal design - Wikipedia
Optimal control theory is a branch of mathematical optimization that deals with finding a control for a

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dynamical system over a period of time such that an objective function is optimized. It has numerous applications in both science and engineering. For example, the dynamical system might be a spacecraft with controls corresponding to rocket thrusters, and the objective might be to reach the moon with minimum fuel expenditure. Or the dynamical system could be a nation's economy, with the object

Optimal control - Wikipedia
Optimal design of semiactive
MR-TLCD for along-wind vibration
control of horizontal axis wind
turbine tower Saptarshi Sarkar
Department of Civil Engineering,
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Systems Underactuated
multibody systems are intriguing
mechatronic systems, as they
posses fewer control inputs than
degrees of freedom. Some
examples are modern light-weight
flexible robots and articulated
manipulators with passive joints.

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focuses on the design of special
control and scheduling algorithms

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based on system structural
properties as well as on analysis
of the influence of induced time-
delay on systems performances.
It treats the optimal design of
distributed and embedded control
systems (DCESs) with respect to
communication and calculation-
resource constraints, quantization
aspects, and potential time-
delays induced by the associated
communication and ...

Optimal Design of Distributed
Control and Embedded Systems

...

(ii) How can we characterize an
optimal control mathematically?
(iii) How can we construct an
optimal control? These turn out to
be sometimes subtle problems, as
the following collection of

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examples illustrates. 1.2

EXAMPLES EXAMPLE 1: CONTROL
OF PRODUCTION AND

CONSUMPTION. Suppose we own,
say, a factory whose output we
can control. Let us begin to

An Introduction to Mathematical
Optimal Control Theory ...

Dynamics of Underactuated
Multibody Systems: Modeling,
Control and Optimal Design.

Robert Seifried (auth.)

Underactuated multibody
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flexible robots and articulated
manipulators with passive joints.

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presents a comprehensive
introduction to the use of
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system design techniques for a
range of industrial control and
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The solution of stochastic and
robust optimal control problems is
considered, building up from
single-input problems and
gradually developing the results
for multivariable design of the
later chapters.

Robust Industrial Control
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Approach ...

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However, optimal design of the impedance value, robust implementation of the virtual impedance, and proper utilization of the virtual impedance for DG performance enhancement are key for the virtual impedance concept. In this paper, flexible small-signal models of microgrids in different operation modes are developed first.

Analysis, Design, and
Implementation of Virtual
Impedance ...

The notion of optimality is closely tied to MIMO control system design. Optimal controllers, i.e., controllers that are the best possible, according to some figure of merit, turn out to generate only stabilizing controllers for MIMO

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plants. In this sense, optimal
control solutions

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