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**Optimal Charging
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This book introduces
the optimal online
charging control of
electric vehicles (EVs)
and battery energy
storage systems
(BESSs) in smart grids.

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The ultimate goal is to minimize the total energy cost as well as reduce the fluctuation of the total power flow caused by the integration of the EVs and renewable energy generators.

**Optimal Charging
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The optimal charging profile of the plug-in hybrid electric vehicles is computed by

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minimizing the power losses. As the exact forecasting of household loads is not possible, stochastic programming...

Optimal Charging Control of Electric Vehicles in Smart Grids

The optimal charging of battery packs has been less investigated than the case of single cells. In particular, most of the available

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literature relies, as
control models, on very
simple lumped ECMs
(see e.g. [39,40]). Few
works tackle the
optimal control of
lithium-ion batteries by
directly modelling each
cell individually.

Optimal charging of an electric vehicle battery pack: A ...

In this paper, we
propose a continuous-
time optimal control
model for optimal

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scheduling of aggregated PEV charging and generating units in day-ahead power systems operation. The aggregated population of PEVs is modeled by a queuing model, which facilitates incorporating two types of deadline-based and delay-based service quality constraints for PEV owners.

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**Continuous-time
optimal charging
control of plug-in ...**

Optimal Charge Control
of Plug-In Hybrid

Electric Vehicles in
Deregulated Electricity
Markets. Abstract: Plug-
in hybrid electric

vehicles are a midterm
solution to reduce the
transportation sector's
dependency on oil.

However, if
implemented in a large
scale without control,
peak load increases

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Optimal Charging Control Of Electric Vehicles In Smart Grids

significantly and the grid may be overloaded.

Optimal Charge Control of Plug-In Hybrid Electric Vehicles ...

We propose a decentralized algorithm to optimally schedule electric vehicle (EV) charging. The algorithm exploits the elasticity of electric vehicle loads to fill the valleys in electric load

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profiles. We first
formulate the EV
vehicles in smart
charging scheduling
Grids
problem as an optimal
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control problem, whose
Electrical And
objective is to impose a
Computer
generalized notion of
Engineering
valley-filling, and study
properties of optimal
charging ...

**Optimal
decentralized
protocol for electric
vehicle charging**

This paper describes
an approach to

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optimize electric
vehicle battery
Smart
charging behavior with
the goal of minimizing
charging costs,
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achieving satisfactory
state-of-energy levels,
Electrical And
Computer
balancing. Two
Engineering
methods for charging
schedule optimization
are compared. The first
formulation uses a
linear approximation of
the battery behavior,
whereas the second
uses a quadratic

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approximation.

Vehicles In Smart
Optimization
Methods to Plan the
Charging of Electric

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...
The globally optimal
solution provides the
globally minimal total
cost. However, the
globally optimal
scheduling scheme is
impractical since it
requires the
information on the
future base loads and
the arrival times and

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Springerbriefs In
the charging periods of
the EVs that will arrive
in the future time of
the day.

**Optimal Scheduling
for Charging and
Discharging of ...**

charging using results
from recent optimal
power flow studies. An
optimal problem
formulation aims to
minimize generation
and charging costs
while satisfying all the
constraints posed by

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the network, and the
optimal powerflow
problem takes into ac-
count both elastic and
inelastic loads.
Reference [12]
similarly
Computer

**IEEE TRANSACTIONS
ON POWER SYSTEMS
1 Optimal Charging
of ...**

Abstract: In this paper,
a two-stage optimal
charging scheme
based on transactive
control is proposed for

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the aggregator to manage day-ahead electricity procurement and real-time electric vehicles (EV) charging management in order to minimize its total operating cost.

Two-Stage Optimal Scheduling of Electric Vehicle Charging ...

Abstract: An optimal anti-lock braking control strategy using nonlinear variable

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voltage charging
scheme for an electric-
wheel vehicle is
developed with aim of
improving energy
recovery efficiency on
the premise of vehicle
safety under the
critical braking
situation.

Optimal Anti-Lock Braking Control With Nonlinear Variable

...

Optimal charging of an
electric vehicle using a

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Markov decision
process @article{Ivers
en2013OptimalCO,
title={Optimal
charging of an electric
vehicle using a Markov
decision process},
author={Emil Banning
Iversen and Juan M.
Morales and Henrik
Madsen},
journal={Applied
Energy},
year={2013},
volume={123},
pages={1-12} }

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[PDF] Optimal
charging of an
electric vehicle
using a ...

Optimal Charge Control
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Electric Vehicles in
Deregulated Electricity
Markets Niklas

Rotering, Marija D. Ilić
Plug-in hybrid electric
vehicles are a midterm
solution to reduce the
transportation sector's
dependency on oil.

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**Control of Plug-In
Hybrid Electric
Vehicles ...**

Managing grid-connected charging stations for fleets of electric vehicles leads to an optimal control problem where user preferences must be met with minimum energy costs (e.g., by exploiting ...

**(PDF) Optimal
control of an electric
vehicle's charging ...**

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Optimal Charging Control Of Electric

Abstract. This chapter discusses strategies to coordinate charging of autonomous plug-in electric vehicles (PEVs). The chapter briefly reviews the state of the art with respect to grid level analyses of PEV charging, and frames PEV coordination in terms of whether they are centralized or decentralized and whether they are optimal or near-optimal

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in some sense.

**Optimal Charging
Control for Plug-In
Electric Vehicles ...**

A global optimum to the joint OPF-charging optimization can be found efficiently in polynomial time by solving its convex dual problem whenever the duality gap is zero for the joint OPF-charging problem. It is shown in a recent work that the duality gap is expected

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to be zero for the
classical OPF problem.

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1, 2018, Gergana
Vacheva and others
published Optimal
Control of Energy Flows
in Smart Grid for
Charging of Electric
Vehicle in Parking |
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**Optimal Control of
Energy Flows in
Smart Grid for
Smart Grid for
Charging ...**

Optimal Charge Control
of Plug-In Hybrid
Electric Vehicles In
Deregulated Electricity
Markets Niklas

Rotering, Student
Member, IEEE and
Marija Ilic, Fellow, IEEE
Abstract—Plug-In
Hybrid Electric Vehicles
(PHEVs) are a mid-term
solution to reducing

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the transportation
sector's dependency
on oil.
Grids

**Optimal Charge In
Control of Plug-In
Hybrid Electric
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Summary: "This book introduces the optimal online charging control of electric vehicles (EVs) and battery energy storage systems (BESSs) in smart grids. The ultimate goal is to

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minimize the total
energy cost as well as
reduce the fluctuation
of the total power flow
caused by the
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generators.
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