

What is the smart grid of the future?

The smart grid of the future is a complex electrical power system. Its study, design, and management requires the integration of knowledge from various disciplines including sustainability, technology and mathematics. Smart grids show a level of complexity and heterogeneity that often cannot be covered by analytical methods.

What do you learn in a smart grid course?

Understand the basics of smart grids. Learn about their heterogeneity, dynamics, control, and about security and assess... Discover the power of solar energy and learn how to design a complete photovoltaic system.

What is a MOOC course based on edX?

This is a Massive Open Online Course (MOOC) that runs on edX. Basic linear algebra, basic electrical circuit theory. Understand the basics of smart grids.

What is a smart grid and why is it important?

Its study, design, and management requires the integration of knowledge from various disciplines including sustainability, technology and mathematics. Smart grids show a level of complexity and heterogeneity that often cannot be covered by analytical methods. Therefore, modeling and simulation are of great importance.

Why is modeling and simulation important in a smart grid?

Smart grids show a level of complexity and heterogeneity that often cannot be covered by analytical methods. Therefore, modeling and simulation are of great importance. This course follows on from the first course where the key definitions, concepts and challenges in a smart grid are introduced.

1. Contribución de energía solar en la red inteligente 1.1 Introducción a las redes inteligentes y fuentes alternas de energía solar 1.2 Generación de energía solar 1.3 Modelos de celdas ...

Aprende los fundamentos técnicos de una smart grid; la configuración de las capas inferiores y la forma en que se interconectan los dispositivos, casas y edificios inteligentes (internet of ...

The MOOC "Smart Grids: the electric grids at the heart of the energy transition" was just broadcast for the first time over five weeks, starting from April 25 th 2017, on the web ...

Le MOOC Smart Grids vise à présenter de manière structurée, et sans exiger de connaissances préalables en électrotechnique, l'ensemble des éléments techniques qui permettent de ...

This engineering course will explain the essential nature of the smart grid, an electricity network based on

digital technology, and the importance of grid modernization. Learn why smart grids ...

Il enseigne le Génie électrique ; l'ENSE3 et dans le Master Smart Grids and Buildings qu'il co-supervise. Ses travaux de recherche portent sur l'utilisation des flexibilités existantes ou ...

EdX est une plateforme d'apprentissage en ligne (dite FLOT ou MOOC). Elle héberge et met gratuitement à disposition des cours en ligne de niveau universitaire ; travers le monde entier. ...

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