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Sommario/riassunto

Advanced Control of Power Converters Unique resource presenting advanced nonlinear control methods for power converters, plus simulation, controller design, analyses, and case studies Advanced Control of Power Converters equips readers with the latest knowledge of three control methods developed for power converters: nonlinear control methods such as sliding mode control, Lyapunov-function-based control, and model predictive control. Readers will learn about the design of each control method, and simulation case studies and results will be presented and discussed to point out the behavior of each control method in different applications. In this way, readers wishing to learn these control methods can gain insight on how to design and simulate each control method easily. The book is organized into three clear sections: introduction of classical and advanced control methods, design of advanced control methods, and case studies. Each control method is supported by simulation examples along with Simulink models which are provided on a separate website. Contributed to by five highly qualified authors, Advanced Control of Power Converters covers sample topics such as: Mathematical modeling of single- and three-phase grid-connected inverter with LCL filter, three-phase dynamic voltage restorer, design of sliding mode control and switching frequency computation under single- and double-band hysteresis modulations Modeling of single-phase UPS inverter and three-phase rectifier and their Lyapunov-function-based control design for global stability assurance Design of model predictive control for single-phase T-type rectifier, three-phase shunt active power filter, three-phase quasi-Z-source inverter, three-phase rectifier, distributed generation inverters in islanded ac microgrids How to realize the Simulink models in sliding mode control, Lyapunov-function-based control and model predictive control How to build and run a real-time model as well as rapid prototyping of power converter by using OPAL-RT simulator Advanced Control of Power Converters is an ideal resource on the subject for researchers, engineering professionals, and undergraduate/graduate students in electrical engineering and mechatronics; as an advanced level book, and it is expected that readers will have prior knowledge of power converters and control systems.

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Livello bibliografico

Monografia

Note generali

The analysis of political series is not interesting as a comparison of fiction with reality but rather because of the images and narratives they contain, which provide more information about politics.

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Sommario/riassunto

House of Cards, Borgen und Co. – seit einiger Zeit boomen Fernsehserien, die explizit den politischen Betrieb fokussieren. Diese erreichen nicht nur ein akademisches Nischenpublikum, sondern erzielen insgesamt hohe Zuschauerquoten. Die Beiträge des Bandes analysieren, wie der Gegenstand Politik in den Serien aufgegriffen und als Material für ihre auf Unterhaltung ausgerichteten Erzählungen aufgearbeitet wird. Über die Auseinandersetzung mit popkulturellen Produkten zeigen sie, wie politische Bilder in populären Filmen und Serien konstruiert und reproduziert werden und wie diese sich auf Wahrnehmungen und Vorstellungen von Politik auswirken. Das Interesse gilt dabei den konstruierten Bildern von Politik im Allgemeinen, aber auch den sich darin äussernden nationalen Besonderheiten.

»Der Band gibt einen gelungenen Überblick über die verschiedenen Aspekte der Thematisierung von Politik in Politikserien und bietet damit zahlreiche Anknüpfungspunkte für den didaktischen Einsatz der Serien im Politikunterricht.«

»Für Kenner der Serien unbedingt lesenswert.«

Besprochen in: <https://faustkultur.de>, 02.08.2018, Thomas RothschildH-Soz-Kult, 25.10.2018, Sandra NuyLübecker Nachrichten, 31.10.2018Deutsche Ostsee-Zeitung, 31.10.2018Kieler Nachrichten, 31.10.2018Leipziger Volkszeitung, 31.10.2018www.maz-online.de, 31.10.2018Außerschulische Bildung, 1 (2019), Johannes Schillo
»[Man] kann hier durchaus eine Menge über das Verhältnis von Faktum und Fiktion im TV erfahren.«

»Der lesenswerte Band von Niko Switek liefert auch wertvolle Impulse für die Forschung der politischen Kommunikation.«

»Der Sammelband bietet einen breiten Einblick in politikwissenschaftliche Interpretationen von Popkultur. Er stellt eine ganze Reihe anregender Überlegungen im Hinblick auf Erzählweisen und politische Systeme an.«

»Es gibt einen Rückkopplungseffekt zwischen Popkultur und Politik«
