

This paper proposes a novel control strategy, called virtual capacitor control, which enables the utilization of the energy storage capability of the MMC to attenuate voltage fluctuations of ...

In this paper, an adaptive virtual capacitor control strategy (AVSSC) based on consensus is proposed to solve this problem. The strategy ensures the accurate sharing of ...

Abstract-- We define the virtual infinite capacitor (VIC) as a nonlinear capacitor that has the property that for an interval of the charge  $Q$  (the operating range), the voltage  $V$  remains ...

In this paper, the real-time simulation model of the modular multilevel converter was split into several independent parts through the use of the virtual capacitor concept. As a ...

Furthermore, parallel virtual capacitors are used to improve reactive power sharing and series capacitors are used to compensate the bus voltage in [27]. However, the ...

An idea by combining virtual capacitor (VC) based active damping control (ADC) method with DC bus voltage conditioner (DBVC) technique for load converter is proposed in this paper. ...

Inspired by the operation concept of classical generators and VSM techniques, in this paper an autonomous virtual-capacitor control is designed for dc micro-grids, which ...

In this paper, the real-time simulation model of the modular multilevel matrix converter was split into three independent instances using the concept of virtual capacitance. In doing so, the ...

We define the virtual infinite capacitor (VIC) as a nonlinear capacitor that has the property that for an interval of the charge  $Q$  (the operating range), the voltage  $V$  remains constant.

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This paper demonstrates the splitting of the modular multilevel converter real-time simulation model into several independent parts through the use of the virtual capacitor ...

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virtual-capacitor technique over classical strategies and to carry out the parametric stability analyses.  
1Introduction DC and hybrid ac/dc microgrids are arising as one of the most ...

Fig. 1. 3- 8 characteristics of a virtual infinite capacitor. A nonlinear capacitor for which  $\delta$  (as a function of  $\beta$ ) has a flat region, namely  $V Q = 0$  for  $\beta \in [\beta_{min}, \beta_{max}]$ , will be called a virtual infinite ...

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