

Analysis of Sub-synchronous Resonance (SSR) in Doubly-fed Induction Generator (DFIG)-Based Wind Farms (Paperback)



Filesize: 1.23 MB

Reviews

A whole new eBook with a new standpoint. Better then never, though i am quite late in start reading this one. I discovered this publication from my i and dad advised this publication to discover.

(Meredith Hoppe)

ANALYSIS OF SUB-SYNCHRONOUS RESONANCE (SSR) IN DOUBLY-FED INDUCTION GENERATOR (DFIG)-BASED WIND FARMS (PAPERBACK)



To get **Analysis of Sub-synchronous Resonance (SSR) in Doubly-fed Induction Generator (DFIG)-Based Wind Farms (Paperback)** PDF, remember to click the web link beneath and download the file or have accessibility to additional information that are relevant to **ANALYSIS OF SUB-SYNCHRONOUS RESONANCE (SSR) IN DOUBLY-FED INDUCTION GENERATOR (DFIG)-BASED WIND FARMS (PAPERBACK)** ebook.

Morgan Claypool Publishers, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Wind power penetration is rapidly increasing in today s energy generation industry. In particular, the doubly-fed induction generator (DFIG) has become a very popular option in wind farms, due to its cost advantage compared with fully rated converter-based systems. Wind farms are frequently located in remote areas, far from the bulk of electric power users, and require long transmission lines to connect to the grid. Series capacitive compensation of DFIG-based wind farm is an economical way to increase the power transfer capability of the transmission line connecting the wind farm to the grid. For example, a study performed by ABB reveals that increasing the power transfer capability of an existing transmission line from 1300 MW to 2000 MW using series compensation is 90 less expensive than building a new transmission line. However, a factor hindering the extensive use of series capacitive compensation is the potential risk of subsynchronous resonance (SSR). The SSR is a condition where the wind farm exchanges energy with the electric network, to which it is connected, at one or more natural frequencies of the electric or mechanical part of the combined system, comprising the wind farm and the network, and the frequency of the exchanged energy is below the fundamental frequency of the system. This oscillatory phenomenon may cause severe damage in the wind farm, if not prevented. Therefore, this book studies the SSR phenomenon in a capacitive series compensated wind farm. A DFIG-based wind farm, which is connected to a series compensated transmission line, is considered as a case study. The book consists of two main parts: Small-signal modeling of DFIG for SSR analysis: This part presents a step-by-step tutorial on modal analysis of a DFIG-based...

-  [Read Analysis of Sub-synchronous Resonance \(SSR\) in Doubly-fed Induction Generator \(DFIG\)-Based Wind Farms \(Paperback\) Online](#)
-  [Download PDF Analysis of Sub-synchronous Resonance \(SSR\) in Doubly-fed Induction Generator \(DFIG\)-Based Wind Farms \(Paperback\)](#)

You May Also Like



[PDF] Weebies Family Halloween Night English Language: English Language British Full Colour
Click the hyperlink below to download "Weebies Family Halloween Night English Language: English Language British Full Colour" PDF file.
[Save Book »](#)



[PDF] Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large
Click the hyperlink below to download "Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large" PDF file.
[Save Book »](#)



[PDF] Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]
Click the hyperlink below to download "Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]" PDF file.
[Save Book »](#)



[PDF] Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]
Click the hyperlink below to download "Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]" PDF file.
[Save Book »](#)



[PDF] The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds
Click the hyperlink below to download "The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds" PDF file.
[Save Book »](#)



[PDF] Growing Up: From Baby to Adult High Beginning Book with Online Access
Click the hyperlink below to download "Growing Up: From Baby to Adult High Beginning Book with Online Access" PDF file.
[Save Book »](#)