



Vector Control of Three-Phase AC Machines: System Development in the Practice (Power Systems)

By Nguyen Phung Quang, Jörg-Andreas Dittrich



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This book addresses the vector control of three-phase AC machines, in particular induction motors with squirrel-cage rotors (IM), permanent magnet synchronous motors (PMSM) and doubly-fed induction machines (DFIM), from a practical design and development perspective. The main focus is on the application of IM and PMSM in electrical drive systems, where field-orientated control has been successfully established in practice. It also discusses the use of grid-voltage oriented control of DFIMs in wind power plants. This second, enlarged edition includes new insights into flatness-based nonlinear control of IM, PMSM and DFIM. The book is useful for practitioners as well as development engineers and designers in the area of electrical drives and wind-power technology. It is a valuable resource for researchers and students.

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Editorial Review

From the Back Cover

This monograph covers the area of vector control of three-phase AC machines, in particular induction motors with squirrel-cage rotor (IM), permanent excited synchronous motors (PMSM) and doubly-fed induction machines (DFIM), from the viewpoint of the practical design and development. Main focus is on the application of the IM and the PMSM in electrical drive systems, where the method of the field-orientated control has been successfully established in the practice, and on the use of the grid voltage orientated controlled DFIM in the wind power plants.

The monograph is suitable for the practical work. Development engineers and designers of the electrical drive and of the wind power technology are mainly mentioned with the book. It can be recommended for qualified employees from the research and for students.

About the Author

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