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Principles of Power Electronics

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Advanced and Intelligent Control in Power Electronics and Drives Teresa Orłowska-Kowalska, Frede Blaabjerg, José Rodríguez, 2014-01-08 Power electronics and variable frequency drives are continuously developing multidisciplinary fields in electrical engineering and it is practically not possible to write a book covering the entire area by one individual specialist Especially by taking account the recent fast development in the neighboring fields like control theory computational intelligence and signal processing which all strongly influence new solutions in control of power electronics and drives Therefore this book is written by individual key specialist working on the area of modern advanced control methods which penetrates current implementation of power converters and drives Although some of the presented methods are still not adopted by industry they create new solutions with high further research and application potential The material of the book is presented in the following three parts Part I Advanced Power Electronic Control in Renewable Energy Sources Chapters 1 4 Part II Predictive Control of Power Converters and Drives 5 7 Part III Neurocontrol and Nonlinear Control of Power Converters and Drives 8 11 The book is intended for engineers researchers and students in the field of power electronics and drives who are interested in the use of advanced control methods and also for specialists from the control theory area who like to explore new area of applications

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Fifth European Conference on Power Electronics and Applications: Electronic power supply systems ,1993 *Proceedings of the ... International Symposium on Power Semiconductor Devices and ICs* ,2001 **Control in Power Electronics and Electrical Drives** Werner Leonhard,1978 HVB ,1999 Recoge 1 Partnership 2 Executive summary 3 Objectives of the project 4 Means used to achieve the objectives 5 Project benefits 6 Scientific and technical description of the project 7 References *Pulse Width Modulation for Power Converters* D. Grahame Holmes,Thomas A. Lipo,2003-10-03 Table of contents **The Brown Boveri Review** ,1984 **Summer Session Catalogue** Massachusetts Institute of Technology,1937 Sixth International Conference on Power Electronics and Variable Speed Drives ,1996

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