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bascom avr ist eine basic entwicklungsumgebung für die bekannten avr mikrocontroller von atmel und ein beispiel dafür dass leistungsfähige entwicklungsumgebungen auch kostengünstig zur verfügung gestellt werden können der 2004 in zweiter auflage erschienene titel liegt nun in dritter bearbeiteter und erweiterter auflage vor und berücksichtigt auch neuere avr mikrocontroller mit ihren weiterentwickelten merkmalen da bascom avr heute über ein umfangreiches hilfesystem in englischer sprache verfügt wurde die befehlsbeschreibung zugunsten der beschreibung neuer merkmale wie kalibration des internen rc oszillators u a sowie der erweiterten peripherie komprimiert die anwendungen wurden hinsichtlich auswahl und umfang beträchtlich erweitert entsprechend hat sich die zahl der seiten auf 444 erhöht in der 3 auflage neu sind aussagen zu folgenden themen ad umsetzung kalibration des internen rc oszillators ansteuerung grafischer lcds anbindung ans internet ansteuerung von servos dc und schrittmotoren u a m es werden neue hardwareplattformen wie atmel butterfly lilipad arduino und orangutan in die betrachtungen einbezogen auf der website des autors ckuehnel ch sind weitere informationen sowie alle im buch behandelten pro grammbeispiele zum download zu finden

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this book offers a comprehensive assessment of the stability of modern power systems through advanced nonlinear analysis frameworks it addresses the new challenges to power system stability posed by the anticipated integration of numerous power electronic interfaced devices needed to support renewable energy generation given the diverse operational timescales associated with controllers for power electronic interfaced devices these devices can have an impact on a wide range of dynamic phenomena thereby significantly influencing the system s dynamic performance and stability the methodologies presented effectively manage the significant changes in system dynamics introduced by these devices this research utilizes nonlinear methodologies specifically bifurcation theory to analyse various stability types in such power electronic rich systems the book adopts a bifurcation based methodology to evaluate power system stability through detailed examination of each type of instability mechanism the methodology developed is extended to explore the interactions between multiple types of system stability considering the impacts of different voltage source converter controllers and grid strengths finally to reduce the high computational burden imposed by the proposed methodology a hybrid network model is developed to assess the system stability efficiently stability assessment of power systems with multiple voltage source converters is of interest to students researchers and industry professionals in the field of electrical engineering

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