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同步发电机-半导体整流系统的通用数字仿真方法

谢少军, 严仰光

南京航空航天大学自动控制系, 南京, 210016

GENERAL MATHEMATIC SIMULATION METHOD FOR SYNCHRONOUS GENERATOR-SEMI CONDUCTOR RECTIFIER SYSTEMS

Xie Shaojun, Yan Yangguang

Department of Automatic Controlling Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, 210017

摘要

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摘要 给出了一种同步发电机-半导体整流系统的通用数字仿真方法, 该方法可以确定每一时刻半导体器件的通断状态, 从而能够正确地仿真该系统的瞬态和稳态工况, 并能简便地进行半导体器件故障运行状态分析。该方法可用于建立含单级半导体整流器同步发电机、无刷交直流发电机等部件的系统的仿真软件, 具有程序编制简便、流程清晰、计算精度高、计算速度快等特点

关键词: 同步发电机 整流器 数字仿真

Abstract: A general method to analyse synchronous generator/rectifier combination is presented. The on/off status of semiconductor devices is established at every moment, so this method can simulate the steady state and instantaneous state work conditions correctly, and can be simply used to analyse the trouble work process caused by device breakdown. The simulating software for the systems containing one stage semiconductor rectifier generator, brushless AC and DC generators and so on can be established by this method. It is characterized by programming simplicity, clear flowchart, high precision and shorter calculating time.

Keywords: synchronous-generators rectifiers digital simulation

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