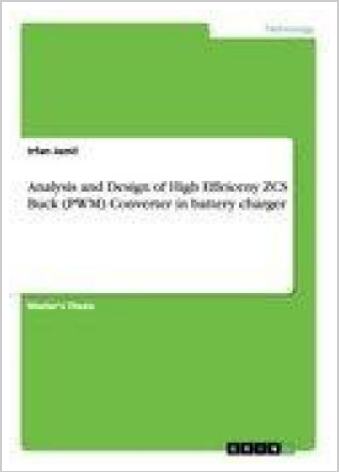

Analysis and Design of High Effeiceny ZCS Buck (PWM) Converter in battery charger

By Irfan Jamil

Grin Verlag Gmbh Mrz 2014, 2014. Taschenbuch. Book Condition: Neu. 210x148x5 mm. This item is printed on demand - Print on Demand Titel. Neuware - Master's Thesis from the year 2014 in the subject Electrotechnology, grade: Master degree, Hohai University (College of Energy and Electrical Engineering), course: Power Electronics, language: English, comment: This study employs a buck ZCS (PWM) converter and develops a novel soft-switching approach for charger batteries. This thesis presents technique for battery charger to achieve efficient performance in charging shaping, minimum low switching losses and reduction in circuit volume. The operation of circuit charger is switched with the operation of zero-current-switching, resonant components and appends the topology of dc-dc buck. The proposed novel dc-dc battery charger has advantages with the simplicity, low cost, high efficiency. , abstract: This study employs a buck ZCS (PWM) converter and develops a novel soft-switching approach for charger batteries. This thesis presents technique for battery charger to achieve efficient performance in charging shaping, minimum low switching losses and reduction in circuit volume. The operation of circuit charger is switched with the operation of zero-current-switching, resonant components and appends the topology of dc-dc buck. The proposed novel dc-dc battery charger has advantages with...

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