



Power Electronic Converters

By Francis Labrique

Springer Mai 2012, 2012. Taschenbuch. Book Condition: Neu. 279x210x25 mm. This item is printed on demand - Print on Demand Neuware - This is the final volume in a four-volume series concerning POWER ELECTRONIC CONVERTERS. The first volume studies AC/DC conversion, the second studies AC/AC conversion, and the third DC/DC conversion. This final volume deals with DC/AC conversion, i.e. with inverters. At the output of an inverter fed by a DC voltage supply, this voltage is alternatively found with one polarity and then with the other; in other words, an AC voltage made up of square pulses is obtained. Filtering must be carried out if, as is normally the case, a virtually sinusoidal voltage is required: this problem of filtering underlies the entire study of inverters. In some applications, the load itself provides the filtering. In others, a filter is installed between the inverter and the load; however, as it will be shown in Chap. 2, in cases where the filtered voltage is at industrial network frequency and comprises only a single square-wave pulse per half-cycle, the filter becomes bulky and costly, and the results obtained are poor. Filtering problems explain the considerable development of inverters during the...



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