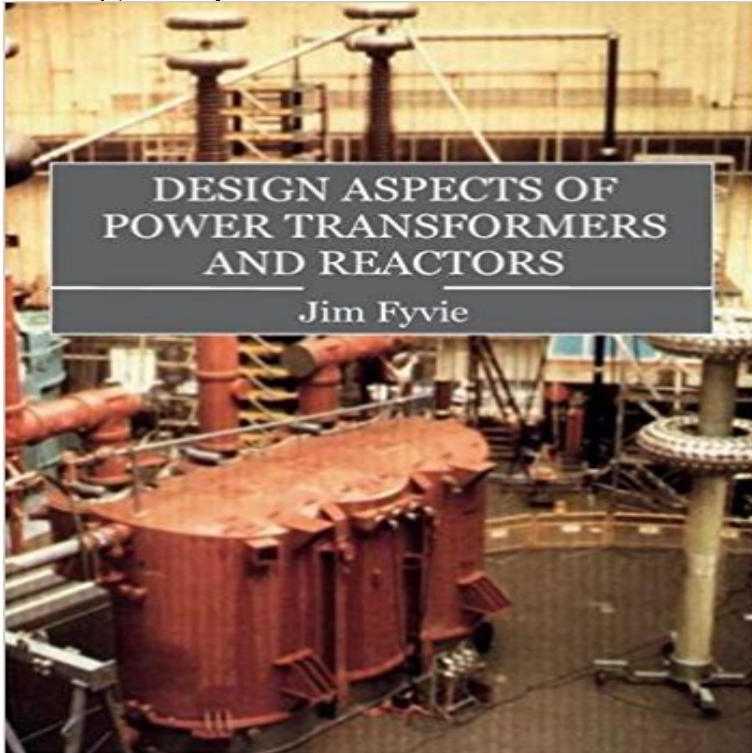


Design Aspects of Power Transformers and Reactors



This book will present some aspects of the design of power transformers and reactors. It forms a second edition of the first book which only dealt with power transformers, it is in two parts, part-2 covers the extra subject of reactors, however the details of electromagnetic and electric theory as described in part-1, still apply. It has been written at a level which should suit all students studying power engineering. It will also supplement the training of young graduates who intend to specialize in power engineering. The content has been restricted in order to keep the cost down and students who wish to extend their knowledge can refer to other more complete and detailed books and specifications of which there are many. I have made use of sketches and illustrations in order to give some visualization of the design parameters, I have also inserted some photographs showing actual transformers and reactors to give an indication of the size of these units. The units shown were all manufactured by Peebles Power Transformers in Edinburgh, which was unfortunately destroyed by a major fire in 1999. I have also introduced some examples for the preliminary designs of reactors, these are in the form of EXCEL sheet outputs. I would like to thank the management for their permission to use these photographs, and the staff and workforce who built these excellent units.

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