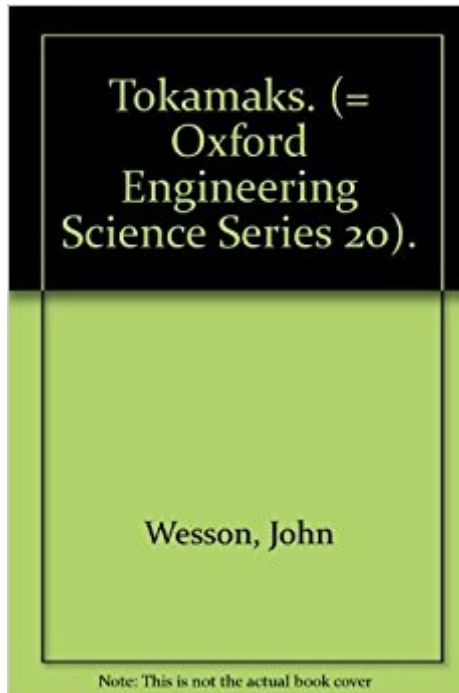




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Tokamaks (Oxford Engineering Science Series)



Synopsis

This book is the first to focus on tokamaks, the principal research tool in controlled fusion research. Beginning with an examination of the tokamak's place in the field and the requirements of working power generation, ensuing chapters cover such topics as plasma physics, properties of the tokamak, plasma heating methods and problems associated with them, and diagnostic methods. The author also provides an appendix on background mathematical and physical theory. Copiously illustrated throughout and designed with an unusually large page size, this easy to use handbook is both a sound introduction and a basic guide to theory, definitions, and equations for workers in plasma physics, nuclear fusion, energy resources, and power systems.

Book Information

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"The tokamak is the predominant device used to try to wring useful power from thermonuclear fusion. Wesson and a number of collaborating colleagues provide specialists already working in tokamak research with information about other areas of the subject, and those outside the field with an introduction to the principal concepts, methods, and problems involved. He includes equations, formulas, and data that research workers often need. Among the topics are fusion, equilibrium, confinement, instabilities, diagnostics, plasma-surface interactions, and large tokamaks. He has updated the 1987 and 1997 editions to reflect developments in the science and technology."

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J.Wesson is a Senior Theoretical Physicist at JET Joint Undertaking, Abingdon, Oxon. --This text refers to an out of print or unavailable edition of this title.

This book serves as an encyclopedia of the 60+ years of knowledge that come before us in this field. Usually Wesson just gives an overview of various topics and refers you to a long list of references for more information. The information is typically practical, apparently designed for an experimentalist in mind but it does delve into theory as necessary. It also talks about some past/and current big machines and their research objective. (I am really glad that I finally bought this book (though I wish I had waited a few more months for the 4th editions) but it is very helpful to have my own copy. This book is one of the ones that you read for one thing and then you get drawn into learning and a few sections or chapters later you have learned quite a lot. First book I would recommend buying as a fusion experimentalist grad student or scientist.

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