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Flux Coordinates and Magnetic Field Structure: A Guide to a Fundamental Tool of Plasma Theory (Scientific Computation) William D. D'haeseleer, William N.G. Hitchon, James D. Callen, J. Leon Shohet Flux Coordinates and Magnetic Field Structure gives a systematic and rigorous presentation of the mathematical framework and principles underlying the description of magnetically confined fusion plasmas. After a brief treatment of vector algebra in curvilinear coordinate systems the book introduces concepts such as flux surfaces, rotational transforms, and magnetic differential equations. The various specific types of coordinate system are dealt with in detail. Researchers and advanced students in plasma physics, electromagnetics, and mathematical physics will greatly benefit from this useful guide and reference book.



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