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pioneering scientists in
this expanding field offers
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an insight into the
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Plasma Physics and
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Volume 59, 2017. Issues in
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2017; Latest issues...
Special issue featuring the
invited talks from the 43rd
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Plasma Physics and
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fusion by one of the pioneering scientists in this expanding field offers both a simple and intuitive discussion of the basic concepts of this subject and an insight into the challenging problems of

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Scholar It has often been
said that 99% of the matter
in the universe is in the
plasma state; that is, in
the form of an electrified

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gas with the atoms
dissociated into positive
ions and negative electrons.

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and fluid collective plasma
theories, plasma equilibria
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current experimental and
theoretical research on all

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aspects of the physics of
high-temperature plasmas and
of controlled nuclear
fusion, including the basic
phenomena in highly-ionised
gases in the laboratory, in
the ionosphere and in space,
in magnetic-confinement and

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Control. Fusion: ISSN

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Nuclear Energy and

Engineering Condensed Matter

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are seeking to produce
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as an ideal source for generating electricity. The new PPPL algorithm helps track fast charged particles in the plasma.

Advancing the arrival of
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promise of providing ...

This new edition presents
the essential theoretical
and analytical methods
needed to understand the

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Recent fusion research of

tokamak and alternate
approaches. The author
describes

magnetohydrodynamic and
kinetic theories of cold and
hot plasmas in detail. The
book covers new important

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topics for fusion studies such as plasma transport by drift turbulence, which depend on the magnetic configuration and zonal flows. These are universal phenomena of microturbulence. They can

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modify the onset criterion
for turbulent transport,
instabilities driven by
energetic particles as well
as alpha particle generation
and typical plasma models
for computer simulation. The
fusion research of tokamaks

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with various new versions of H modes are explained. The design concept of ITER, the international tokamak experimental reactor, is described for inductively driven operations as well as steady-state operations

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Fusion non-inductive drives.
Alternative approaches of
reversed-field pinch and its
relaxation process,
stellator including quasi-
symmetric system, open-end
system of tandem mirror and
inertial confinement are

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also explained. Newly added
and updated topics in this
second edition include zonal
flows, various versions of H
modes, and steady-state
operations of tokamak, the
design concept of ITER, the
relaxation process of RFP,

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quasi-symmetric stellarator,
and tandem mirror. The book
addresses graduate students
and researchers in the field
of controlled fusion.

This complete introduction
to plasma physics and

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fusion by one of the pioneering scientists in this expanding field offers both a simple and intuitive discussion of the basic concepts of this subject and an insight into the challenging problems of

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current research. In a wholly lucid manner the work covers single-particle motions, fluid equations for plasmas, wave motions, diffusion and resistivity, Landau damping, plasma instabilities and nonlinear

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problems. For students, this outstanding text offers a painless introduction to this important field; for teachers, a large collection of problems; and for researchers, a concise review of the fundamentals

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as well as original Manual

treatments of a number of topics never before explained so clearly. This revised edition contains new material on kinetic effects, including Bernstein waves and the plasma dispersion

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fusion, and on nonlinear wave equations and solitons. For the third edition, updates was made throughout each existing chapter, and two new chapters were added; Ch 9 on "Special Plasmas" and Ch 10 on Plasma

Online Library Plasma Physics And Controlled Fusion Solution Manual Applications (including Atmospheric Plasmas) .

TO THE SECOND EDITION In the
nine years since this book
was first written, rapid

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progress has been made scientifically in nuclear fusion, space physics, and nonlinear plasma theory. At the same time, the energy shortage on the one hand and the exploration of Jupiter and Saturn on the other have

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increased the national awareness of the important applications of plasma physics to energy production and to the understanding of our space environment. In magnetic confinement fusion, this period has seen the

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attainment 13 of a Lawson
number nTE of $2 \times 10 \text{ cm}^{-3}$
sec in the Alcator tokamaks
at MIT; neutral-beam heating
of the PL T tokamak at
Princeton to $KTi = 6.5 \text{ keV}$;
increase of average β to
3%-5% in tokamaks at Oak

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and the stabilization of

mirror-confined plasmas at
Livermore, together with
injection of ion current to
near field-reversal
conditions in the 2XII β
device. Invention of the

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tandem mirror has given magnetic confinement a new and exciting dimension. New ideas have emerged, such as the compact torus, surface-field devices, and the EBT mirror-torus hybrid, and some old ideas, such as the

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stellarator and the reversed-
field pinch, have been
revived. Radiofrequency heat
ing has become a new star
with its promise of dc
current drive. Perhaps most
importantly, great progress
has been made in the

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understanding of the MHD
behavior of toroidal
plasmas: tearing modes,
magnetic Vll Vlll islands,
and disruptions.

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