

# Inertial Electrostatic Confinement IEC Fusion Fundamentals And Applications

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## **Inertial Electrostatic Confinement IEC Fusion**

Inertial electrostatic confinement, or IEC, is a class of fusion power devices that use electric fields to confine the plasma rather than the more common approach using magnetic fields found in magnetic fusion energy (MFE) designs. Most IEC devices

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directly accelerate their fuel to fusion conditions, thereby avoiding energy losses seen during the longer heating stages of MFE devices.

## **Inertial electrostatic confinement - Wikipedia**

Generically, such systems are called inertial-electrostatic confinement (IEC) fusion systems. In the 1950's, research was done on one form of IEC, purely electrostatic confinement, in which a voltage difference on concentric grids focuses charged particles [1].

## **Inertial Electrostatic Confinement Project - University of ...**

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This book provides readers with an introductory understanding of Inertial Electrostatic Confinement (IEC), a type of fusion meant to retain plasma using an electrostatic field. IEC provides a unique approach for plasma confinement, as it offers a number of spin-off applications, such as a small neutron source for Neutron Activity Analysis (NAA), that all work towards creating fusion power.

## **Inertial Electrostatic Confinement (IEC) Fusion ...**

Inertial Electrostatic Confinement Fusion Fusion is the nuclear reaction that powers stars, like our sun. When the nuclei of light elements are forced together, heavier elements are formed and staggeringly large amounts of energy are released.

## **Inertial Electrostatic Confinement Fusion**

Pulsed power supply circuit has allowed the inertial electrostatic confinement (IEC) fusion device to pulse to high currents, 170 mA, at a peak voltage of 30 kV, and a pulse width of 0.016 microseconds.

## **Operation of Inertial Electrostatic Confinement Fusion ...**

This book provides readers with an introductory understanding of Inertial Electrostatic Confinement (IEC), a type of fusion meant to retain plasma using an electrostatic field. IEC provides a unique approach for plasma confinement, as it offers a number of spin-off applications, such as a small neutron source for Neutron Activity Analysis (NAA), that all work towards creating

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fusion power.

## **Inertial Electrostatic Confinement (IEC) Fusion ...**

The development of inertial electrostatic confinement devices may be a critical step for harnessing fusion energy. According to Miley et al., the spherical inertial electrostatic confinement (IEC) devices are capable of providing  $10^7$  neutrons per second steady-state. [4]

## **Development of Inertial Electrostatic Confinement (IEC ...**

Welcome. To the home of Inertial Electrostatic Confinement (IEC) at the University of Wisconsin-Madison. We are a research group affiliated with the Fusion Technology Institute in the Department of Engineering Physics. On this page you will find a variety of resources relating to our work with IEC over the last decade.

## **Inertial Electrostatic Confinement Project - University of ...**

Inertial electrostatic confinement (IEC) is a method of producing nuclear fusion in which concentric spherical electrodes are used to accelerate ions to fusion relevant energies. Fu-

## **Evidence for surface fusion in inertial electrostatic ...**

Inertial Electrostatic Confinement Iec Fusion Inertial electrostatic confinement, or IEC, is a class of fusion power devices that use electric fields to confine the plasma rather than the more common approach using magnetic fields found in magnetic fusion energy (MFE) designs.

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## **Inertial Electrostatic Confinement (IEC) Fusion ...**

Inertial-Electrostatic Confinement Fusion Systems by Todd H. Rider Submitted to the Department of Nuclear Engineering on April 15, 1994, in partial fulfillment of the requirements for the degree of Master of Science Abstract The suitability of various implementations of inertial-electrostatic confinement (IEC) sys-

## **A General Critique of Inertial-Electrostatic Confinement ...**

This book provides readers with an introductory understanding of Inertial Electrostatic Confinement (IEC), a type of fusion meant to retain plasma using an electrostatic field. IEC provides a unique approach for plasma confinement, as it offers a number of spin-off applications, such as a small neutron source for Neutron Activity Analysis (NAA), that all work towards creating fusion power.

## **Inertial Electrostatic Confinement (IEC) Fusion | FuseNet**

Inertial electrostatic confinement (IEC), which originates from a fusion reactor concept, could offer both plasma generation and confinement at the same time within a strong electric field [2, 3].

## **Inertial electrostatic confinement (IEC) fusion ...**

Goodbye thermonuclear fusion; hello inertial electrostatic confinement fusion (IEC), an old idea that's been made new. While the international community debates the fate of the politically-turmoiled \$12 billion ITER (an experimental thermonuclear reactor), simple IEC reactors are being built as high-school science fair projects.

## **Robert W Bussard: Electrostatic Confinement Fusion**

(2003). Production of  $^{13}\text{N}$  Via Inertial Electrostatic Confinement

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Fusion. Fusion Science and Technology: Vol. 44, Proceedings of the Fifteenth Topical Meeting on THE TECHNOLOGY OF FUSION ENERGY (Part 2) Washington, D.C. November 17-21, 2002, pp. 539-543.

## **Production of $^{13}\text{N}$ Via Inertial Electrostatic Confinement**

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Inertial-Electrostatic Confinement offers several possible advantages for the confinement of a  $Q > 1$  fusion plasma. Numerous past experiments have produced data that warrants further 14 Sved, J., "The Commercial IEC Portable Neutron Source," Trans. of the ANS, 77 , 504, (1997).

## **INERTIAL-ELECTROSTATIC CONFINEMENT (IEC) OF A FUSION ...**

According to Todd Rider in A general critique of inertial-electrostatic confinement fusion systems, net energy production is not viable in IEC fusion for fuels other than D-T, D-D, and D-He3, and breakeven operation with any fuel except D-T is unlikely.

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