

# Abstracta

Ano II - N. 07

Agosto-98



Trabalhos Aceitos para Publicação

A045-98 à A046-98

## ACCEPTED PAPERS FOR JOURNAL PUBLICATION

**A 045-98 Exponential Absorption Edge and Disorder in Column IV Amorphous Semiconductors.**

**A. R. Zanatta, M. Mulato and I. Chambouleyron.**

We discuss the likely origin of the exponential absorption tail, or Urbach edge, of fourfold coordinated amorphous (a)semiconductors. The present analysis is based on a compilation of a considerable amount of experimental data originating from a great variety of samples, alloys, and authors, and obtained with quite different spectroscopic techniques. An attempt is made to correlate the measured Urbach edge with the structural and optical properties of the samples. The present analysis indicates that the Urbach edge may not only reflect the shape of the joint density of states of the valence and conduction band tails, but may also have important contributions from short-range order potential fluctuations produced by charged defects or impurities.

**Journal of Applied Physics 84 (9), 77-79, Jul 1998**

**A 046-98 On Current Drive in Field-Reversed Configurations.**

**Roberto A. Clemente**

The problem of current drive in field-reversed configurations, by applying two transverse magnetic fields rotating in opposit

**Journal of the Physical Society of Japan 67 (10), 3450-3453, 1998**

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**Projeto Gráfico**  
**ÍgneaDesign**

**Impressão**  
**Gráfica Central - Unicamp**