

Oxygen Vacancies in Sc_{1-x}S

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Electron diffraction studies of Sc_{1-x}S (0 < x < 1) reveal the presence of oxygen vacancies in the Sc_{1-x}S lattice. The oxygen vacancy concentration is determined to be $\sim 3 \times 10^6$ per unit cell. The oxygen vacancy concentration is found to be independent of the x value. The oxygen vacancy concentration is found to be independent of the x value. The oxygen vacancy concentration is found to be independent of the x value.

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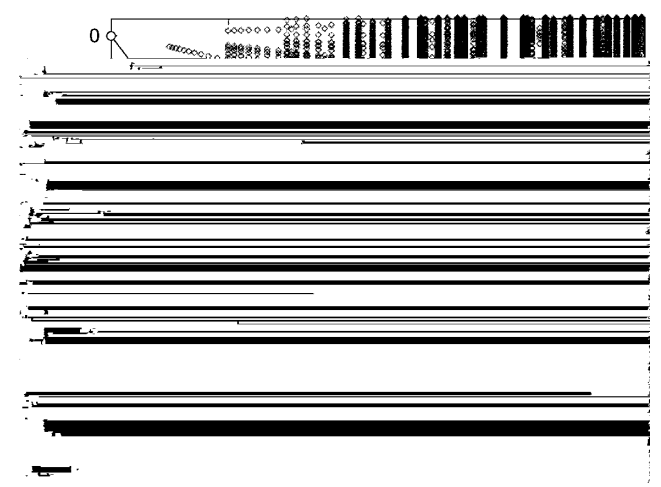
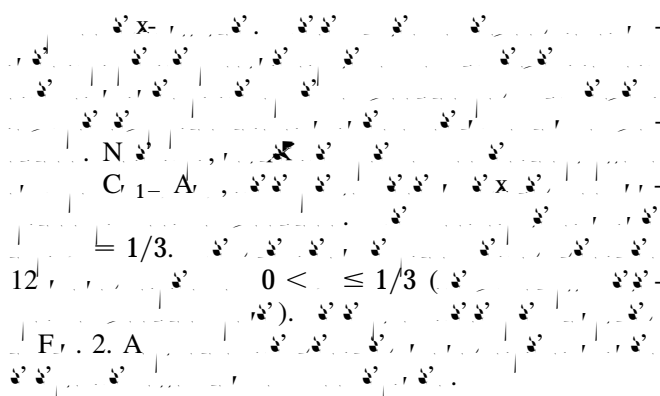
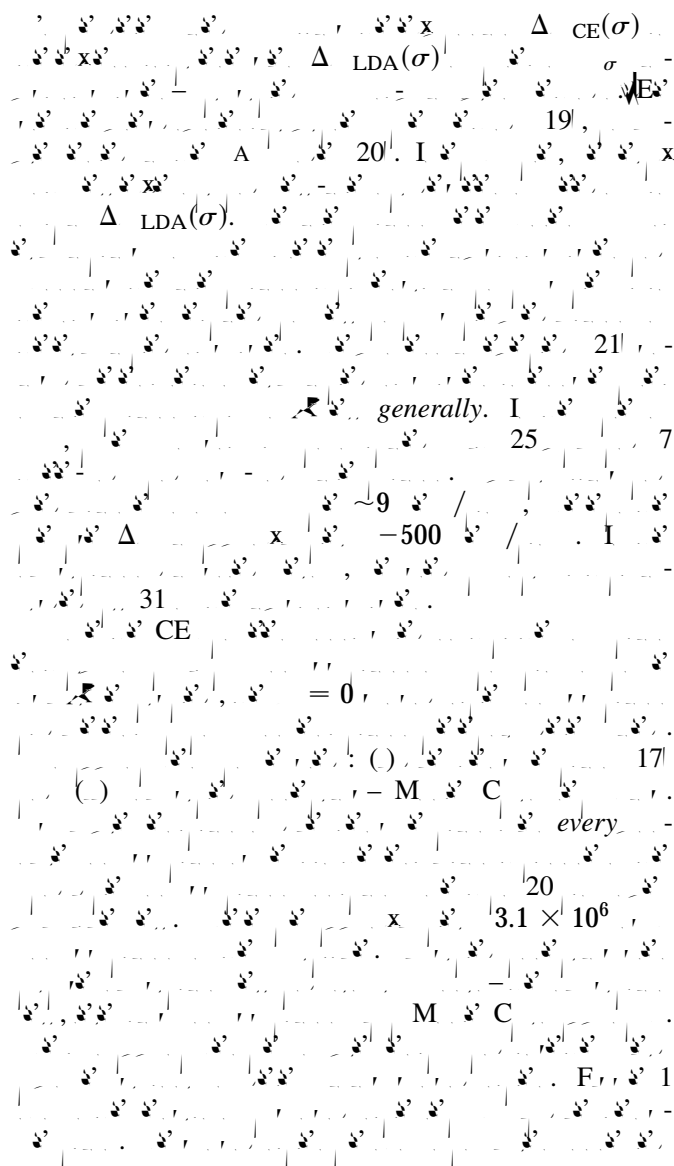


FIG. 1. Distribution of LDA-CE(σ) for various parameters. The plot is divided into regions labeled 'generally', 'M', 'C', and 'F'. The numerical values shown are 19, 20, 21, 25, 31, 9, -500, 3.1×10^6 , and 17.

$x = 8, 23$.
Long range order.
 $(F, 2) : ()$
 $(111) : ()$
 $(111) : (112)$
 $F x = 1/6$
 $1 \ 2 \ 1 \ 8 \ ()$

