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Abstract

Full Text

LETTER TO THE EDITOR

In our article (S. N. L' vov, V. F. Nemchinov, T. Ya. Kosolapova, G. V. Samsonova, "Physical Properties of Titanium Carbide in the Homogeneity Region"), published in *DAN*, vol. 157, no. 2, 1964, through our fault an error was made

in the concluding part of the article on p. 411 (2nd paragraph from the top). In this connection the part of the paragraph beginning with the words "In this case a certain regularity is observed···" and to the end of the paragraph should read:

In this case a certain regularity is observed in the temperature dependence of the electrical resistivity and thermoelectric emf on composition: with an increase in the carbon content, the angle of inclination of the ρ–temperature curves increases linearly, while that of the α_T–temperature curves decreases linearly (Fig. 4). The strengthening of the dependence of electrical resistivity on temperature with increasing carbon content in titanium carbide may be associated with a relative increase in the role of scattering of current carriers by thermal vibrations in comparison with the role of their scattering by lattice defects of the unsaturated carbide, when the number of these defects decreases upon approaching the stoichiometric composition. Evidently, in unsaturated carbides this factor has a more substantial significance than the increase in lattice rigidity, which also leads to the observed rise of the electrical-resistivity –temperature curves as the carbide lattice becomes saturated with carbon.

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Note: Figure translations are in progress. See original paper for figures.