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DESCRIPTORS: *Steel, *Austenite, Hardening,
Chromium alloys, Nickel alloys, Mechanical
properties, *Metallography, Microstructure, *Cold-
working, Annealing, Phase studies.

A method showing that the surface phase α and the α
phase of cold-working are identical and have the same
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DESCRIPTORS: *Nickel alloys, *Aluminum alloys,
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63-12182

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uous growth. On the contrary, the introduction and
evolution of a foreign phase in a solid solution by pre-
cipitation followed by coalescence had been shown to be
a very efficacious method, except for a few exceptions
of making discontinuous growth appear and develop.
At just a sufficient amount of precipitation at high tem-
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63-16641
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<p>DESCRIPTORS: *Uranium alloys, *Molybdenum alloys, Ruthenium alloys, *Decomposition, Phase studies.</p>	<p>Office of Technical Services</p>
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Determination of Oxides in Steels, by L. Backer.
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BIBI 1918

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BIST 2040

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Analysis of the Iron Components of High
Tensile Brass and of Several Complex Alloys Having
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RISI 264

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AEC Tr-4760

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Square Billets of Mild Basic Converter Rimming
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BISI 2609

Sci - Min/Metals

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List 125

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Gabrovsek, M., Plateau, J. and others.
SOME TESTS CONCERNING THE ROLE OF TIN IN
STEELS. II. INFLUENCE OF TIN ON THE LOW
TEMPERATURE MECHANICAL PROPERTIES (In-
fluence de l'Etain sur les Propriétés Mécaniques à
Froid du Fer et des Aciers). Dec 61 [20]p. (foreign
text included) 9 refs.
Order from SLA \$1.60

62-10451

Trans. of Revue de Metallurgie. Memoires
Scientifiques (France) 1961, v. 38, no. 6, p. 440-448.

DESCRIPTORS: *Tin, *Steel, Heat treatment,
Mechanical properties, Iron alloys, Carbon alloys,
Tin alloys, Aluminum alloys.

In the majority of the cases the presence of tin in steel
causes a decrease of ductility, which increases when
the tin content is raised, and which depends on the heat
treatment. This decrease of ductility is always as-
(Metallurgy, TT, v. 7, no. 9) (over)

I. Gabrovsek, M.
II. Plateau, J.
III. Title: Influence...

Office of Technical Services

Direct Determination of Sulphur, Phosphorus,
Carbon, and Silicon in Steel, by Means of Emission,
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FRENCH, M per, Memoires (Les) Scientifiques
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Study of Phosphating Films with X-Rays and
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Sci - Phys

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LUDERS' BANDS AND PORTEVIN-LE CHATELIER
PHENOMENON. [1961] [21]p. 12 refs.
Order from SLA \$2.60

62-10304

Trans. of Revue de Métallurgie. Mémoires
Scientifiques (France) 1961, v. 58, no. 7, p.
p. 510-516.

DESCRIPTORS: *Plasticity, *Deformation, Atomic
structure, Solids, Solutions, Alloys, Impurities,
Dislocations, Metals, Aging, Temperature,
Stresses, Relaxation time.

The time required for atoms of impurities to block
the dislocations of a solid solution can be calculated.
This time varies greatly from one alloy to another,
and this variation explains that of the phenomena
(Physics--Solid State, TT, v. 7, no. 9) (over)

62-10304

1. Title: Luders' bands
 2. Title: Portevin - Le
Chatelier phenomenon
- I. Gullot-Micard, J.
 - II. Cuisso, J.

Office of Technical Services

Surface Tension of Molten Iron and Its Alloys,
Part II, by P. Kosakévitch, G. Urbain.

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pp 517-534.

NDI 2607

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Study of Some Phenomena Relating to the
Precipitation of Carbides in Ni/Cr Austenitic
Steels, by J. Philibert, G. Henry, M. Robert,
et al.

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Sep 1961, pp 677-698.

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Application to the Study of the Recrystallization
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by L. Ramucci, J. P. Langeron, P. Lehr, 26 pp.

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ABC HW Tr-37

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