

CONTENT

Klimov A.A., Struchkov A.V., Bondarik V.B.

The causes of pathological wear of the bandage in the "bandage of the wheel
of lokomotiva-tormoznaya kolodka" system and the possibility of his exception 5

Orlov A.S., Pomerantsev A.S., Sizintsev S.V.

Application of high-frequency induction heating
for increasing crack resistance in the welding of hardening steels..... 12

Generalova K.N., Glukhov A.V., Volkov A.Yu.

The using of resistometry to study the kinetics of atomic ordering
in an Cu–80wt. % Au alloy..... 18

Anakhov S.V., Pyckin Yu.A., Matushkin A.V.

The temperature correlation parameters of gas-vortex stabilization
of metal-cutting plasma torches..... 29

Sidorov V.P., Melzitdinova A.V.

Penetration control for welding on analytical mathematical model of heat distribution..... 38

Olshanskaya T.V., Fedoseeva E.M.

Creation of models of the solution of thermal problems
of electron beam welding with fluctuations of the beam 45

Shchitsyn Yu.D., Terentyev S.A., Neubybin S.D., Artemov A.O., Belinin D.S.

Formation of structure and properties of steel 04CR18NI9
at additive production of trainings 55

Terentyev E.V., Marchenkov A.Yu., Sliva A.P., Goncharov A.L.

36NKhTYu alloy to EP517 steel dissimilar welded joints structural
strength increase due to optimization of weld seam dimensions..... 63

Yudin M.V., Ignatova A.M., Ignatov M.N.

Identification of potassium fluorophylate of the tested batch
for compliance with the standard 73

Ivanov V.A., Feshchenko A.A.

Peculiar properties of the equipment maintenance and repair approaches
in continuous production..... 82

Oskolkov A.A., Matveev E.V., Bezukladnikov I.I., Trushnikov D.N., Krotova E.L.

Advanced technologies for additive manufacturing of metal product 90

Letyagin I.Yu., Belenkiy V.Ya., Trushnikov D.N., Shengyong Pang, Lyamin Ya.V.

Investigation of secondary emission signals from the impact zone
of the laser beam during laser beam welding in vacuum 106