

value was observed, and the portion of base metal. The microhardness values of the zones are determined by the energy parameters of the EEA process. The greater discharge energy value produces the higher microhardness value for the layer having a lower microhardness as well as for the strengthened layer.

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## E Contents

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## I. Introduction

To date, chemical and thermal process (CTP) is one of the most effective methods for strengthening surfaces of parts to improve their durability. Such a kind of processing the parts consists in superficial saturation of metals with different elements. The main types of the CTP processes are: carburiza8ign(istor@tootimf@Refdirg]ayer with carbon); nitration (saturation of a surface layer with nitrogen), nitrocarburization or cyanidation (simultaneous saturation of a surface layer with nitrogen and carbon); diffusion metallization (saturation of a surface layer with various metals), etc.

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