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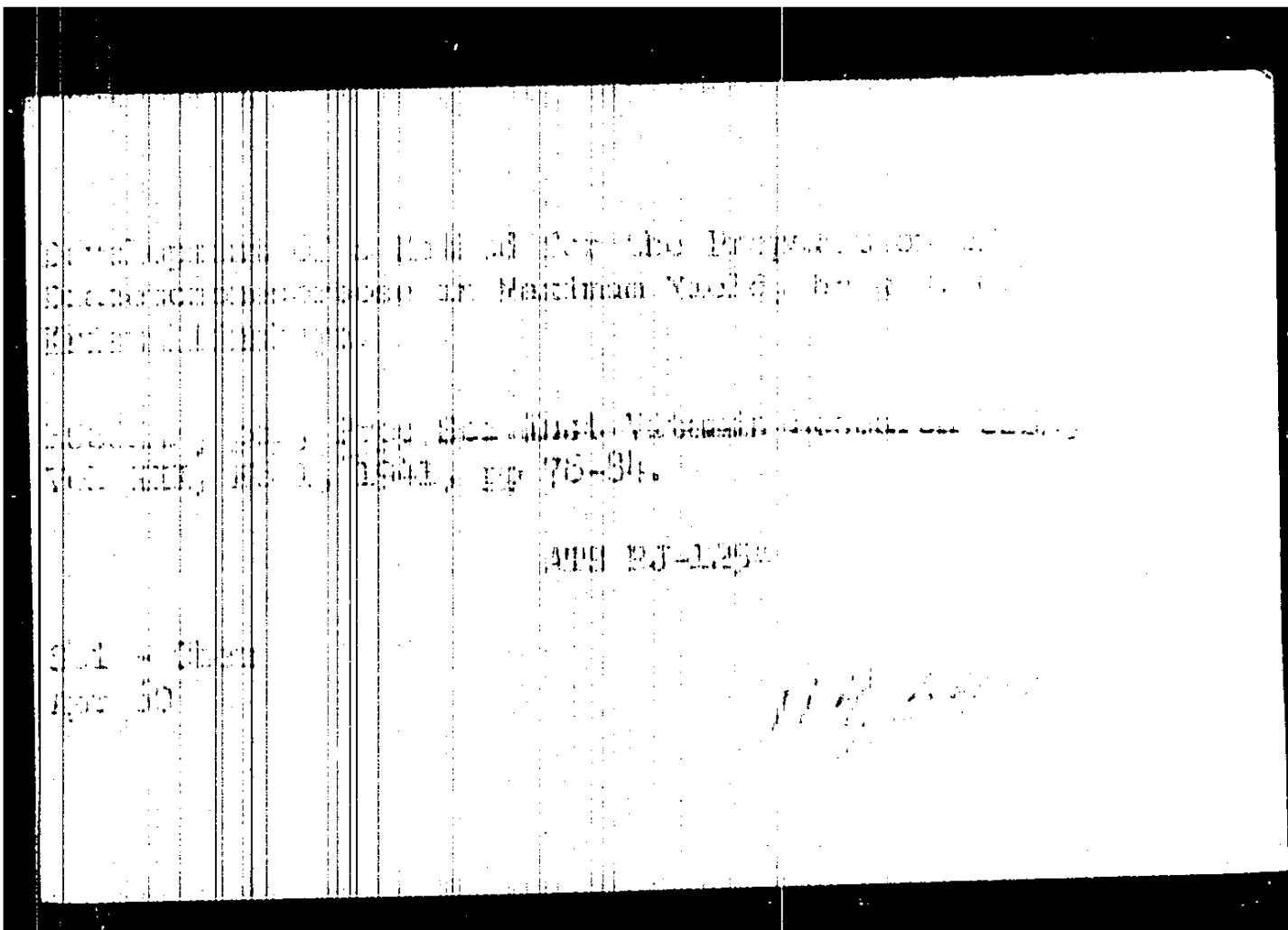
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DESCRIPTORS: \*Turbine blades, \*Shafts, Stability,  
Deflection, Thermal stresses, Thermal expansion.

An analysis shows that residual deflection of rotors  
and shafts at high temperatures during operation are  
caused by formation or relaxation of internal residual  
stresses. Thermal instability of quality forgings is  
not an irremovable defect. Thermal instability is  
elastic thermal deformation at high temperatures. It  
can be produced by the action of internal residual  
stresses with an asymmetrical distribution diagram.  
Structural heterogeneity of the metal has a similar  
(Machinery--Engines, TT, v. 6, no. 1) (over)

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