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FTD-TT-63-676

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DESCRIPTORS: *Continuous media, *Continuum
mechanics, Mechanics

(Mechanics, TT, v. 8, no. 7)

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ON THE INFLUENCE OF VISCOSITY AND HEAT
CONDUCTION ON THE GAS FLOW BEHIND A
STRONG SHOCK WAVE (O Vliyani Vyaskosti i Teplo-
provodnosti na Techenie Gaza za Sil'no Iskrivennoi
Udarnoi Volnoi) tr. by Ronald F. Probstain. Oct 59
[16]p. 2 refs. WADC-TN 59-349; AD-227 413.
Order from OTS or SLA \$1. 60 61-27291

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DESCRIPTORS: *Shock waves, *Gas flow, Viscosity,
Heat transfer, Bodies of revolution

An analysis is made of the case of the symmetric super-
sonic flow of a gas past a body of revolution or a planar
profile with the formation of a detached shock wave in
front of it. Results show that the action of viscous
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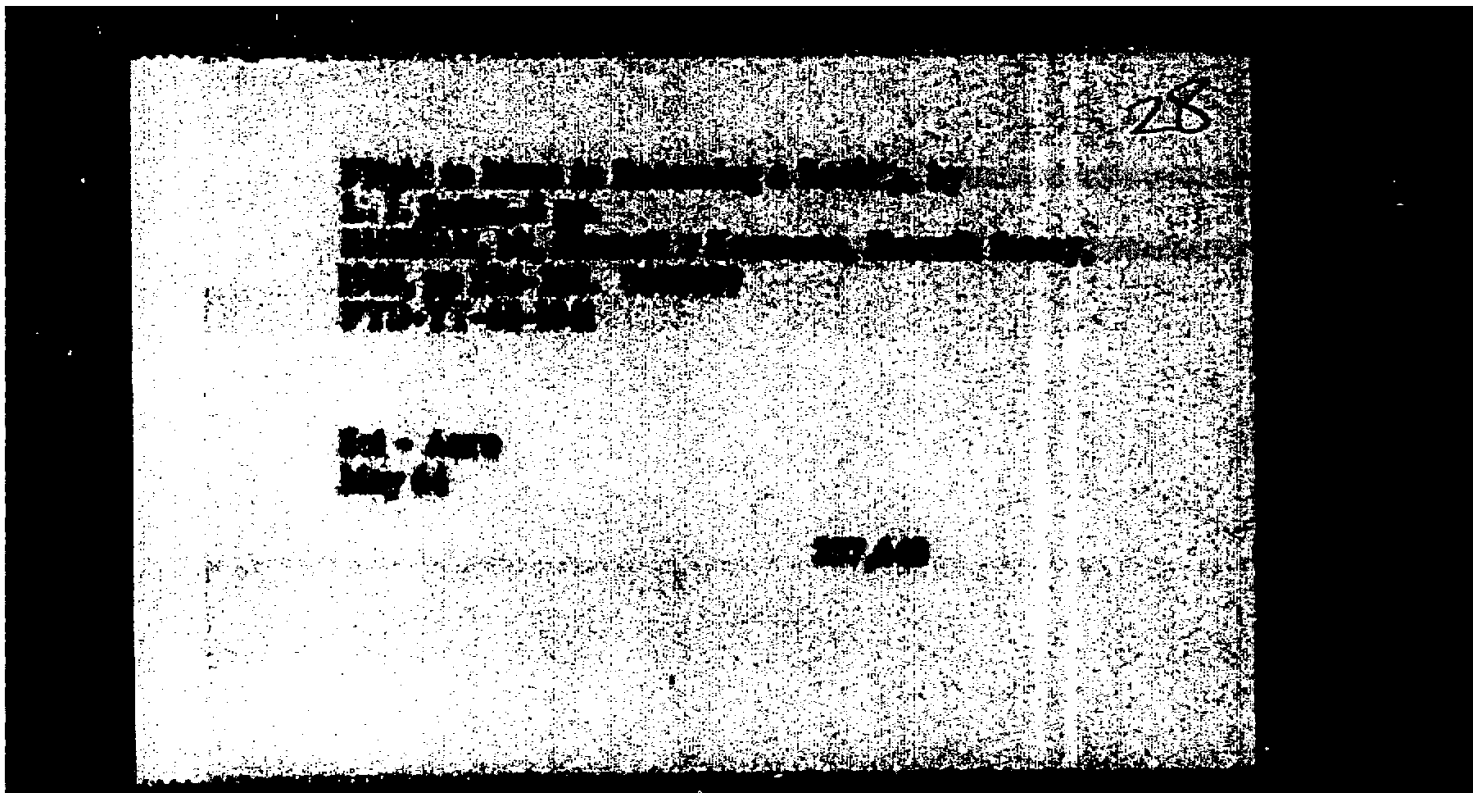
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DESCRIPTORS: *Hydrodynamics, *Aerodynamic
characteristics, *Fluid dynamic properties, Gas flow,
Turbulence, Airfoils, Mechanics, Impact shock,
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Foreword
Introduction
Examples of exact solutions for steady rotational
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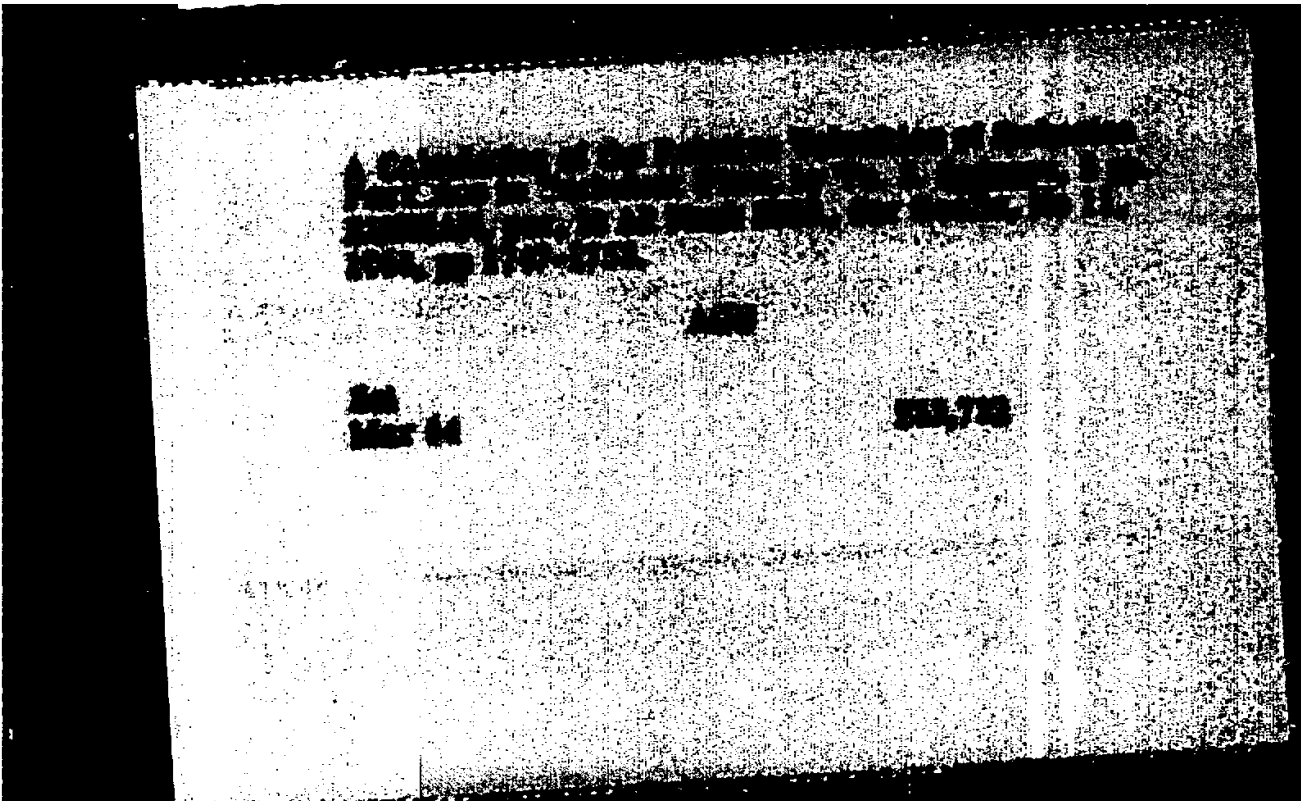
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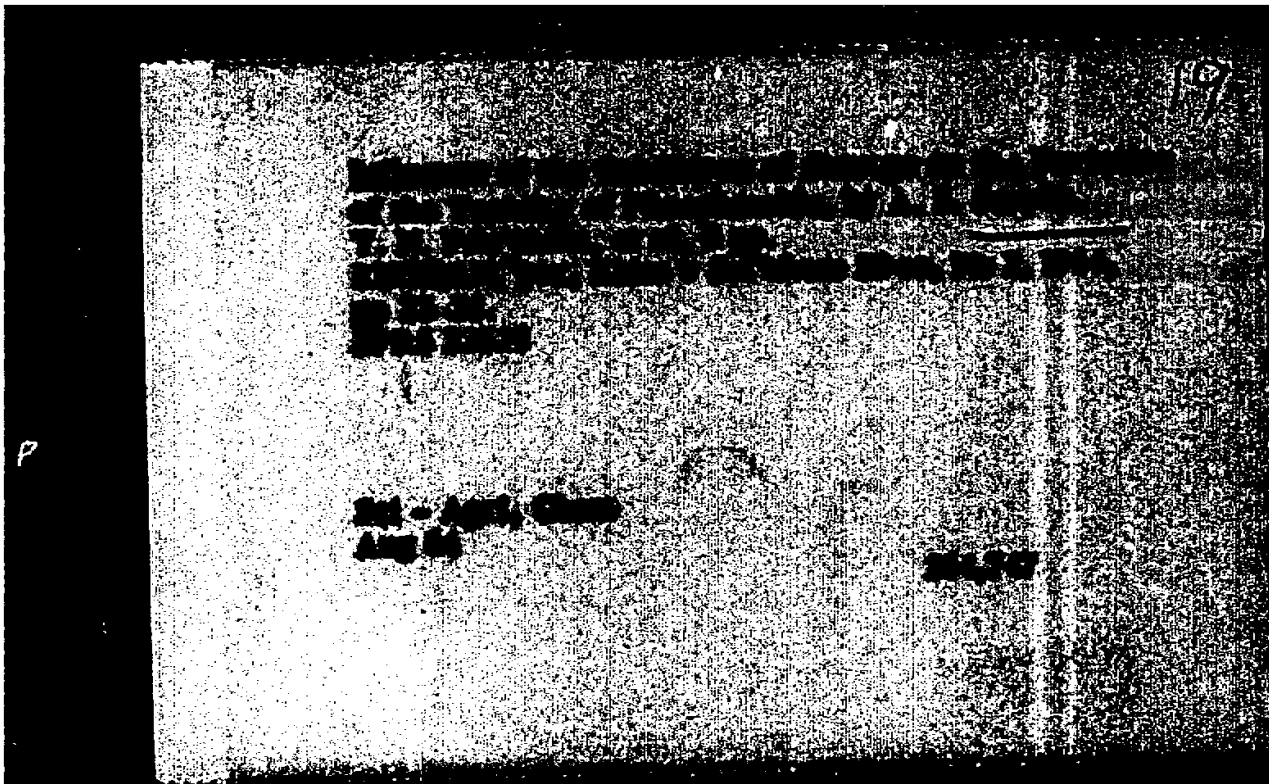
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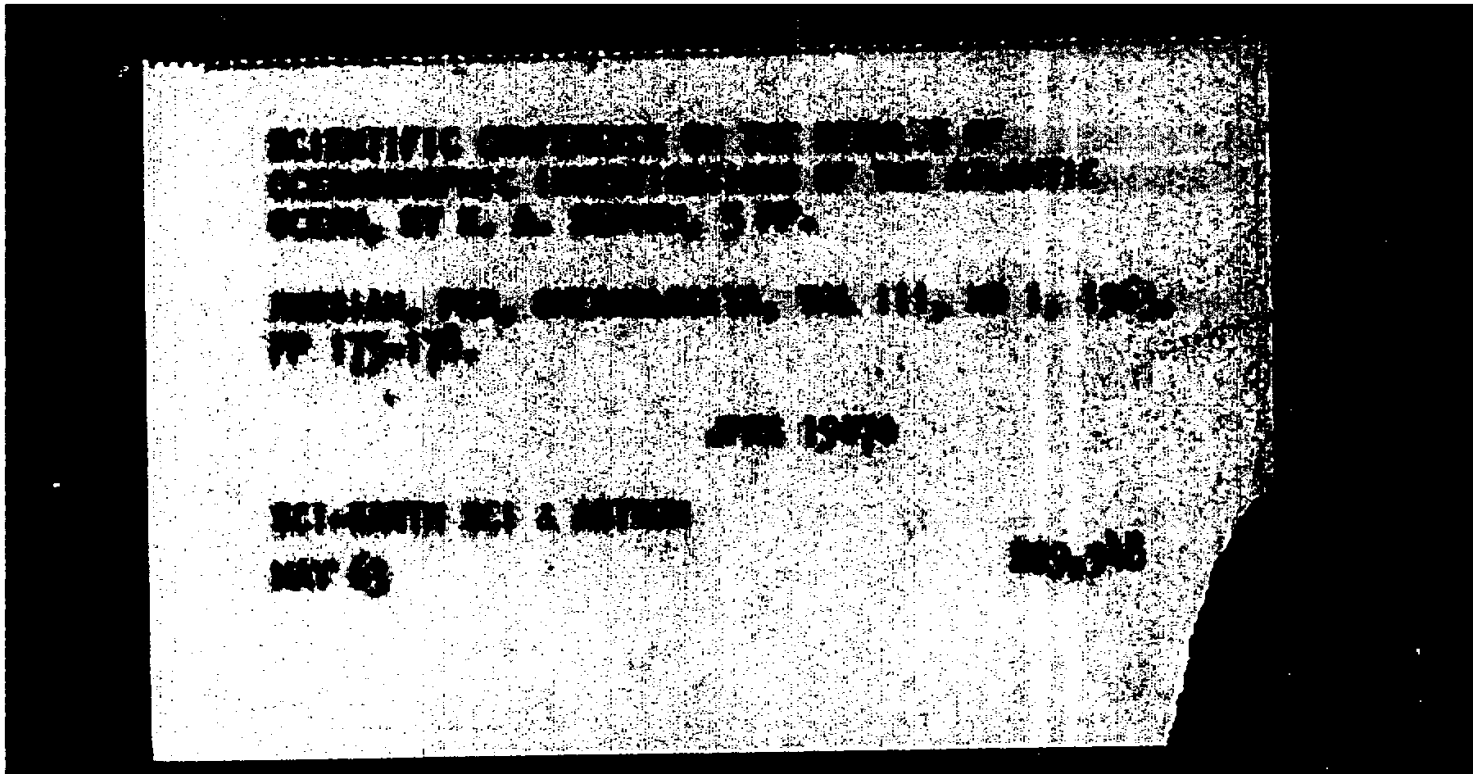
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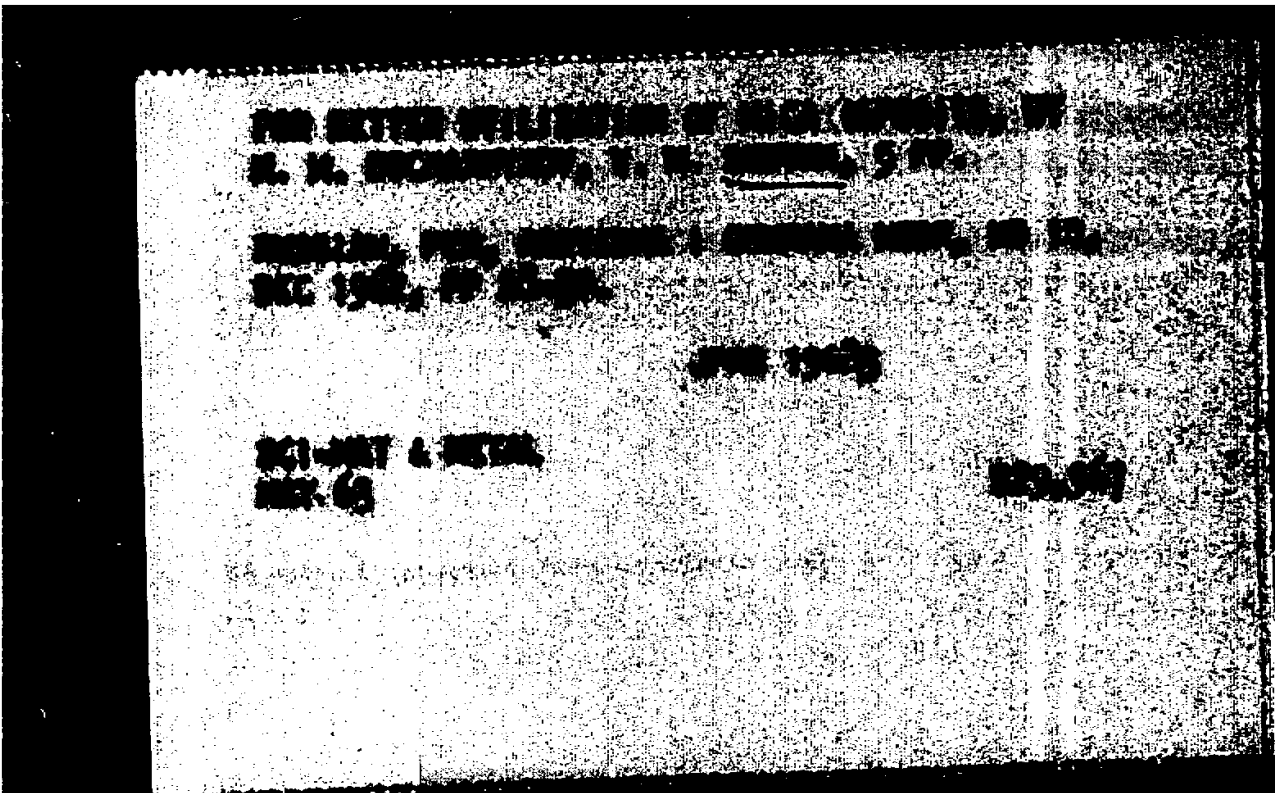
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Test methods, Airplane engines.

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number determination, permits the testing of a motor
fuel under varying temperatures and air-fuel ratios.
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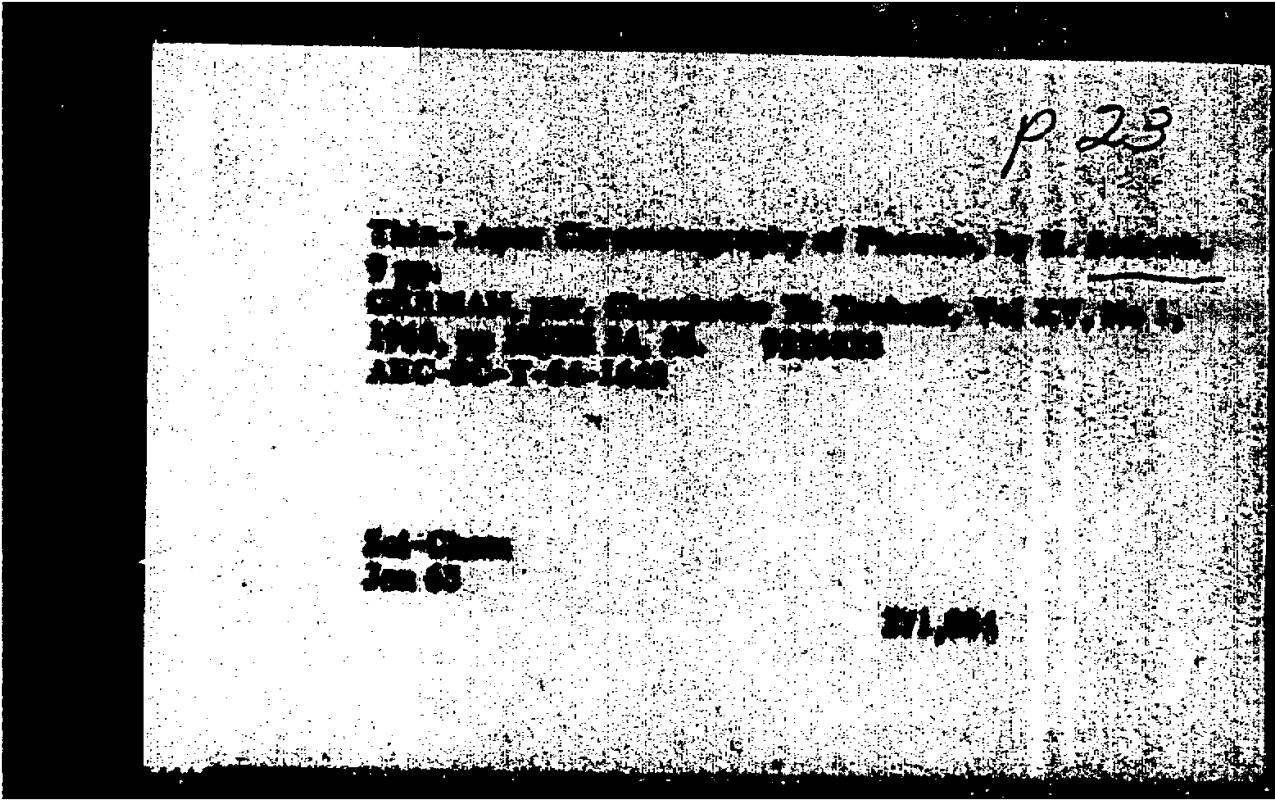
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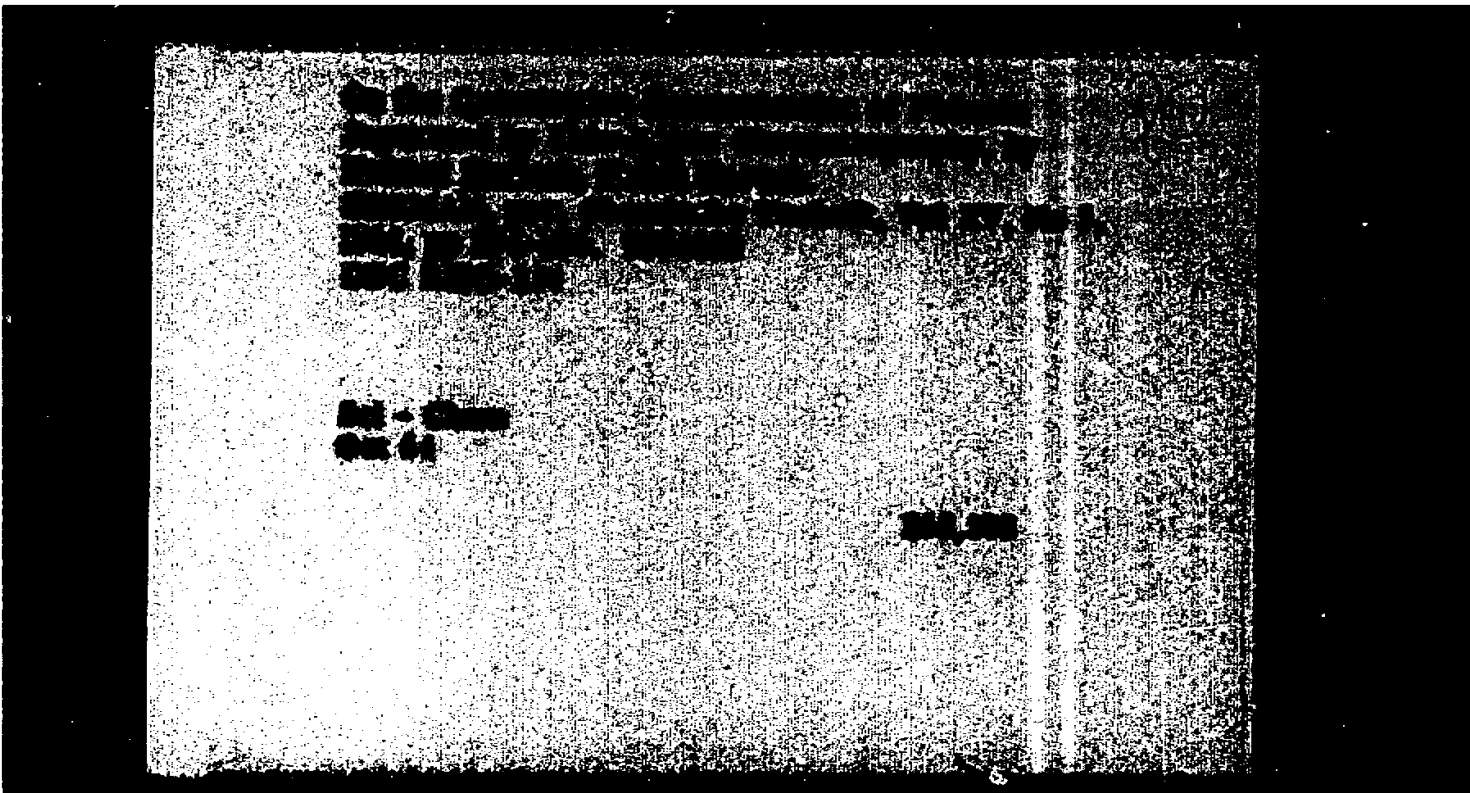
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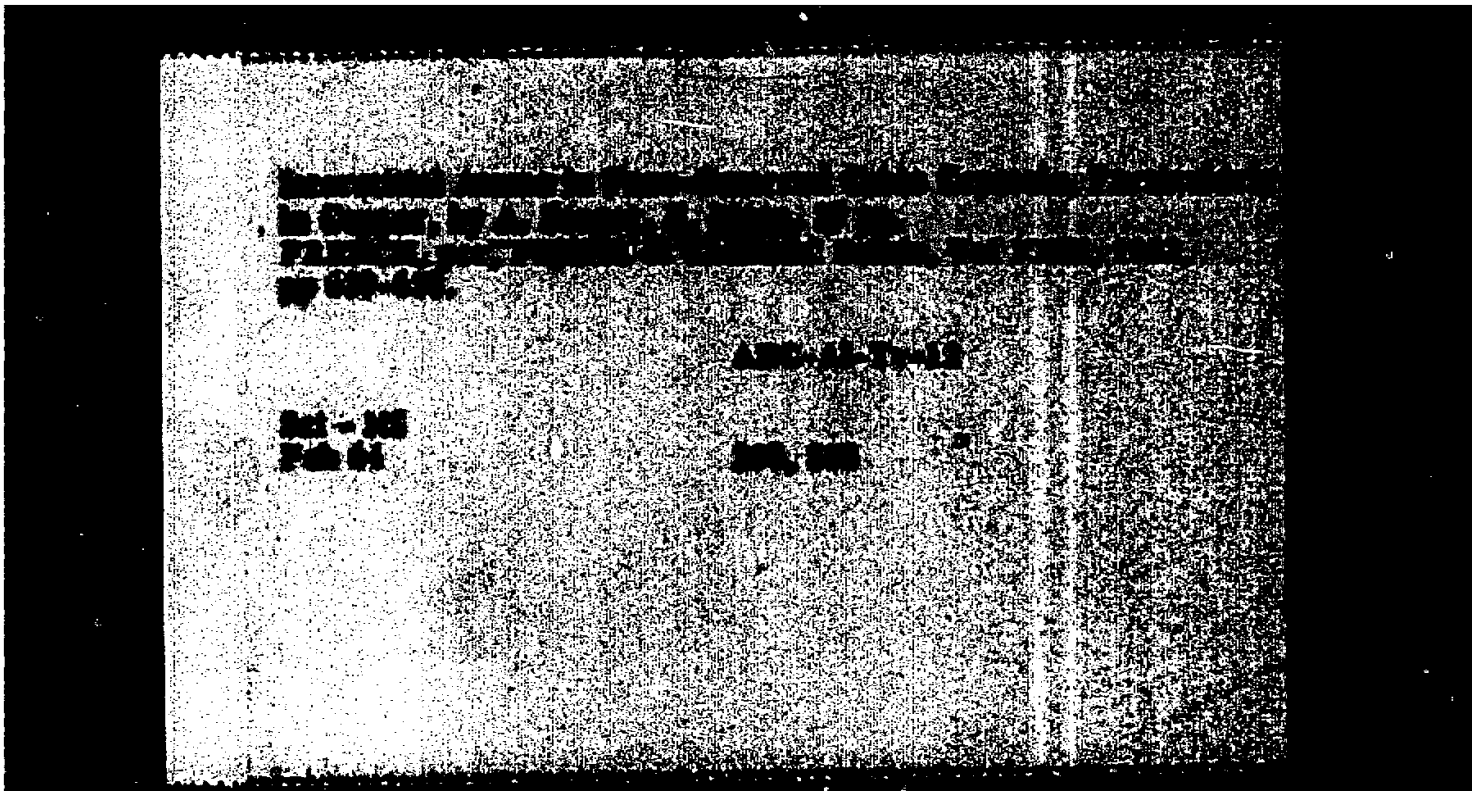
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Elasticity, *X-rays, *Neutrons, Scattering, Theory

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