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(Ukraine--Western--Geology--Bibliography)
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(Mine ventilation)

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AUTHOR: Amabartsunyan, R. V.; Boyko, V. A.; Zuev, V. E.; Basov, N. G.; Krokhin, O. N.; Kryukov, P. G.; Senatskiy, Yu. V.; Stoylov, Yu. Yu.

TITLE: Heating of matter by focused laser radiation

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 6, 1965, 1583-1587

TOPIC TAGS: high temperature plasma, laser application, laser radiation, lithium, air

ABSTRACT: In discussing the main factors that limit the heating of matter to high temperatures by laser radiation, the authors point out that in solids the limitations are imposed by the sharp focus that obtains under most experimental conditions, and that in gases the limitation is imposed by the possibility of gas breakdown. In view of these limitations, they conclude, after analyzing the motion of the breakdown boundary in a gas qualitatively, that focusing of laser radiation on the surface of a condensed medium located in vacuum is the most promising method of obtaining a high temperature plasma. In this case the most convenient mode of

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operation is one in which one-dimensional motion of plasma occurs, since three-dimensional motion leads to rapid reduction in density and a decrease in the relative fraction of the laser radiation absorbed in the plasma. Under these conditions the maximum achievable temperature is determined by the energy loss due to radiation and thermal conductivity. The authors then report the results of a spectral analysis of the emission from a plasma produced by focusing the radiation from a neodymium glass Q-switched laser on the surface of a solid sample of lithium in vacuum. The laser radiation consisted of two pulses, each with energy approximately 3J and each approximately 10 nsec in length. The estimated obtained temperature in this case is of the order of 20 eV (2.3×10^5 deg). In the case of breakdown produced in air of normal density by a ruby laser pulse of approximately 3J the corresponding temperature cannot exceed 10.5 eV. Orig. art. has: 3 figures and 3 formulas.

[02]

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences, SSSR)

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Monograph

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Boyko, Viktor Aleksandrovich; Il'in, Georgiy Vladimirovich; Makov, Yuriy Andreyevich

Measurements during the testing of marine mechanical installations (Izmereniya pri ispytaniyakh sudovykh mekhanicheskikh ustanovok) Leningrad, Izd-vo "Sudostroyeniye", 65. 0266 p. illus., biblio., tables. 2,300 copies printed.

TOPIC TAGS: ship component, electric measuring instrument, automatic control equipment, full scale test, *MARINE ENGINEERING*

PURPOSE AND COVERAGE: This book presents basic problems of the technology and methods of measurements and automatic registration of parameters of marine mechanical installations during testing and especially while checking their operation in steady conditions. Recommendations are made for the selection, preparation, assembly, repair and calibration of measuring instruments. Also viewed are more widespread and successfully used types of automatic registration instruments, the action of which is based on the method of electrical measurements of nonelectrical units. This book can serve as a practical manual in processing and conducting measurements. It is recommended for technical engineers working with problems of measurements and automatic registration of parameters during full scale marine and standing tests of mechanical installations and their parts. This book can also be useful to aspirants and students of institutes of corresponding specialties.

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