



Periodisch Wiederholte Zündungen durch Stoßwellen

By Paul Schmidt

VS Verlag Für Sozialwissenschaften Jan 1959, 1959.

Taschenbuch. Book Condition: Neu. 244x170x3 mm. This item is printed on demand - Print on Demand Neuware - The temporal sequence of combustions occurring in tube-shaped spaces, which are open at one end, with oscillating gas columns reveals a characteristic dependence on the natural oscillation of the gas column. This dependence results from the igniting effects of a shock wave which forms at the end of the tube-shaped space during one period and moves towards the mixture. Theoretical studies based on the laws of gas dynamics do not clarify the igniting effect. It is, however, clarified when considering the shock from the point of view of gas dynamics and molecular kinetics. Since the ignitions proceed with high ignition velocities, considerable progress in combustion techniques can be made by using that type of ignition. Ignition by means of shock waves is not only feasible in oscillation spaces which are open at one end, but also in closed spaces. Of practical importance is the formation of resonance shock waves, which may be produced as plane, cyl 60 pp. Deutsch.



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