BLAST PROPAGATION IN TUNNELS BEHIND CHAMBERS FROM CYLINDRICAL HE- CHARGES DETONATING IN THE TUNNEL ENTRANCE

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To protect an underground structure, a calculation procedure for the blast loading is needed in a given configuration of tunnels and rooms. We used model tests which permit a high number of tests with different chamber volumes and chamber shapes in order to investigate their influence and to generate a data base. Empirical formulas are developed for the blast parameters in tunnels behind the chambers. The pressure time history is calculated by means of modified Friedlander functions. Measured and calculated p(t) curves are compared to check the quality of the approximation
functions in the given range of validity.