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Unified Form EOS for Detonation Products based on relationship between initial density and detonation velocity SHIRO KUBOTA, TEI SABURI, National Institute of Advanced Industrial Science and Technology (AIST), KUNIHITO NAGAYAMA, Kyuhsu University — We have proposed the unified form EOS for detonation products, which employs Gruneisen Γ as a specific volume in previous paper. When the relationship between the initial density and detonation velocity, and one C-J state and P-V isentrope line passing through the corresponding C-J point are known, the proposed method can be used to obtain Gruneisen Γ. In the report, the unified form EOSs are applied for SDT problems for PETN, and so on.

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