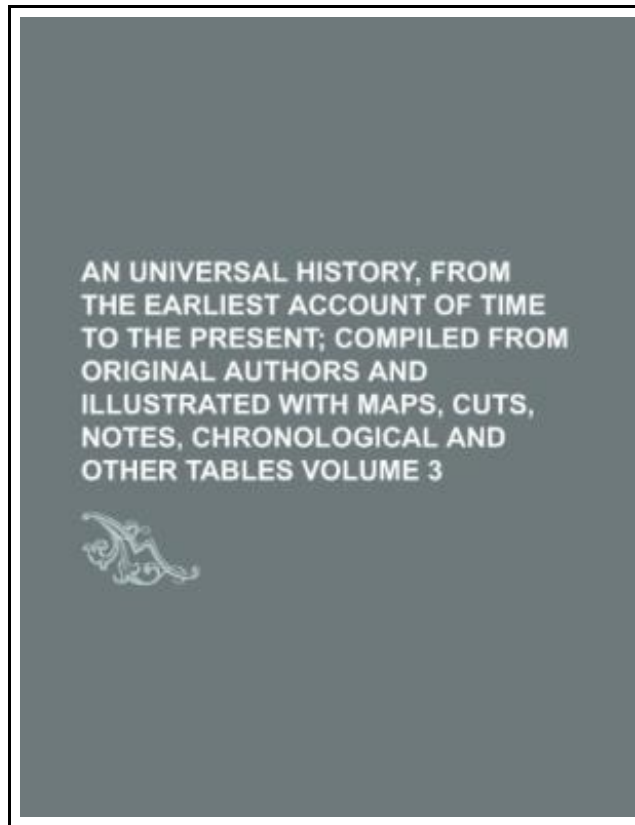


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(Effie Douglas)

AN UNIVERSAL HISTORY, FROM THE EARLIEST ACCOUNT OF TIME TO THE PRESENT VOLUME 3



RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 46 pages. Original publisher: Aberdeen Proving Ground, MD : U. S. Army Research Laboratory, 2006 OCLC Number: (OCoLC)227899876 Subject: Ballistics, Interior. Excerpt: . . . The lead styphnate and tetracene are primary explosives meant to convert the shock induced by the firing pin into the initiation of the primer material. Tetracene is the more impact sensitive of the two (10, 27) and is important in order to keep stability in the sensitivity of the small-caliber primer (28). Davis (10) points out that as little as 2 weight-percent is enough to improve the sensitivity of primers. The impact sensitivity of tetracene is given as 1 N-m, and lead styphnate as 2.5 - 5 N-m (27). The PETN (pentaerythritoltetranitrate) is a high explosive added to the primer mix to increase brisance (the shock produced) and heat produced. The impact sensitivity is given as 3 N-m (27). The aluminum powder increases the heat produced upon ignition, i. e. , the enthalpy of combustion of aluminum raises the peak temperature of the explosive event. (The added effect is dependent on the Al particle size.) The aluminum powder is assumed to sequentially oxidize, but first the encapsulating Al O coating must be disturbed to allow oxygen to the elemental Al $2/3$ in the core of the powder. This can be done by melting the oxide (2045 C, melting point), melting the interior elemental Al (660 C, melting point), or vaporizing the interior Al (2057 C, boiling point). It is interesting to note that an explosive mixture consisting of only liquid oxygen and porous aluminum was invented in 1895 (...)



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