Record Nr. UNINA9910784183903321 Instrumental in War: Science, Research, and Instruments Between **Titolo** Knowledge and the World / / edited by Steven Walton Pubbl/distr/stampa Leiden; ; Boston: ,: BRILL, , 2005 **ISBN** 1-280-86767-1 9786610867677 1-4294-5277-3 90-474-0703-2 1-4337-0683-0 Descrizione fisica 1 online resource (440 p.) Collana History of Warfare;; 28 Disciplina 355/.07 Military art and science - Technological innovations Soggetti Military research - History Scientific apparatus and instruments - History Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto List of Illustrations -- Acknowledgements -- Volume Contributions --List of Contributors -- Introduction, Steven A. Walton -- Chapter One, Mathematical Instruments and the Creation of the Military Gentleman, Steven A. Walton -- Chapter Two, Surveying and the Cromwellian Reconquest of Ireland, William A. Lynch -- Chapter Three, Like Clockwork? Clausewitzian Friction and the Scientific Siege in the Age of Vauban, Jamel Ostwald -- Chapter Four, Calorimeters and Crushers: The Development of Instruments for Measuring the Behavior of Military Powder, Seymour H. Mauskopf -- Chapter Five, Telegraphing the Weather: Military Meteorology, Strategy, and 'Homeland Security' on the American Frontier in the 1870s, James R. Fleming -- Chapter Six, Remnants of Testing at the Sandy Hook Proving Grounds, Sandy Hook, New Jersey, Gerard P. Scharfenberger -- Chapter Seven, From Measuring Progress to Technological Innovation: The Prewar Annapolis Engineering Experiment Station, William M. McBride -- Chapter Eight, Dr. Veblen at Aberdeen: Mathematics, Military Applications and Mass

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Sommario/riassunto

Scientific research and instrumentation are crucial for military action today but they have not always been so. This collection investigates 500 years of the relationship between warfare, research, and instruments - both physical and intellectual - to understand this interaction. With U.S., English and French examples, contributors provide examples from army and naval history to show how governments and individuals made warfare scientific, developing instruments, stations, and organizations that furthered the cause. Some developments directly aided war efforts; others were parts of 'normal science' in peacetime; and others were relatively ineffective in directly bringing about military change. These developmental histories shed light on the origins of modern scientific warfare. Contributors: Steven A. Walton; William A. Lynch; Jamel Ostwald; Seymour H. Mauskopf: James R. Fleming; Gerard P. Scharfenberger; William M. McBride; David Alan Grier; Sebastien Soubiran; Kenton Kroker; Deborah J. Warner; Peter Galison.