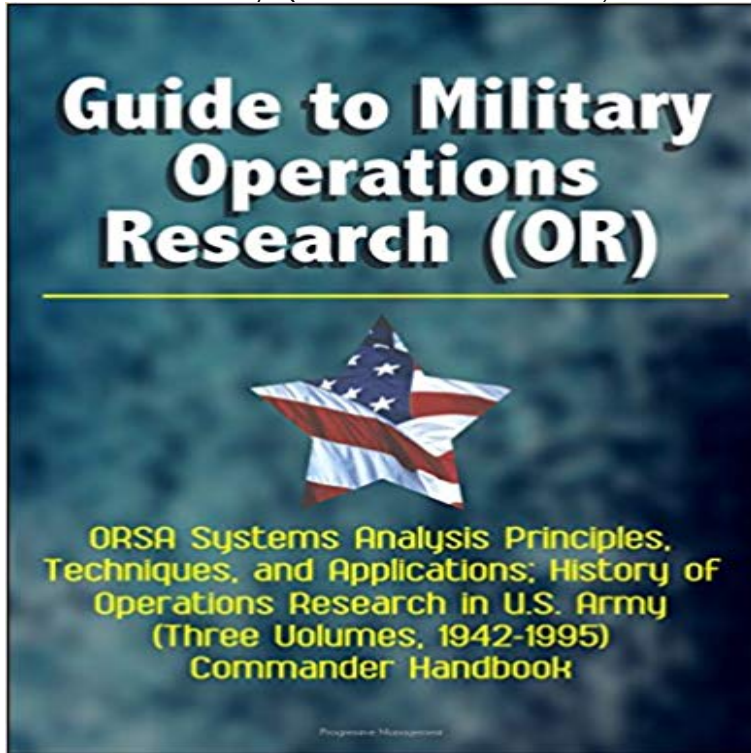


Guide to Military Operations Research (OR): ORSA Systems Analysis Principles, Techniques, and Applications; History of Operations Research in U.S. Army (Three Volumes, 1942-1995), Commander Handbook



This is a print replica reproduction of a unique compilation of official military documents and histories providing a comprehensive guide to operations research in the U.S. military, including the Army. Documents in the collection include: Operations Research/Systems Analysis (ORSA) Fundamental Principles, Techniques, and Applications (Army Logistics University); History of Operations Research in the United States Army - Volume 1, 1942-62; Volume 2, 1961-1973; Volume 3, 1973-1995; ORSA Handbook for the Senior Commander (2008); and Report of the Defense Science Board Advisory Group on Defense Intelligence Operations Research Applications for Intelligence, Surveillance and Reconnaissance (ISR). The twenty-first century has seen an explosion of technology and information. This has given us better ways of doing everything from transportation, housing, food production to defense. As individuals, we are constantly affected by these advances, both in the home and on the job. Along with these numerous advances has come an increasing awareness of the need to better control resources. We must learn to manage space, people, money, and materiel in such a way as to ensure the maximum benefit for our resource investments. Control of resources has become a daily task for most of us, both in our private lives and in our jobs. To manage these resources we have developed a library of skills so to speak: tools which make it easier for us to control the resources for which we are responsible. These tools, referred to as management techniques, may be as simple as a checkbook ledger or as complex as a computerized inventory control system. But, they all have the same objective - better control of resources. Control of resources, however, involves more than just monitoring them. It also involves decisions on how to best allocate the

resources available. Another set of management techniques is required to handle these decision-making problems. All of these techniques are grouped under what is most frequently referred to as Management Science or Operations Research. During World War II, scientists were attached to the British and American military staffs to serve as scientific advisors on tactical and strategic problems. Among other things, they collected and analyzed statistical results from military operations. These analyses sometimes resulted in new tactical rules or in decisions regarding modernization of equipment and force structures. It was during this period that the term operations research was introduced, in reference to the application of scientific analysis to military operations. The following examples illustrate the use of the operations research approach: The British Coastal Command, in their aircraft attacks against submarines, changed from ordinary bombs that exploded on the surface of the water to depth charges. A depth of 100 feet was originally chosen, as the submarines could detect aircraft about two minutes before the attack and during this time could submerge about 100 feet. There was, however, a considerable uncertainty about this choice. The Coastal Command had, at this time, an operations research (OR) group under the leadership of Professor E. J. Williams. He started to collect statistical data and to analyze the chain of events during the attack. Numerical calculations showed that a change of the depth-setting to 25 feet should increase the chances of success of the average attack by a factor of two or more. Professor Williams succeeded in convincing the decision-making authorities and the depth-setting was changed. Within a few months of the change, the effectiveness of aircraft antisubmarine attacks was found to have increased as calculated.

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