

SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (B2)
Interactive Presentations (IP)

Author: Dr. Xiangquan Wei
China, Weixiangquan@163.com

A SET OF MEASUREMENT AND VERIFICATION SYSTEM FOR THE DYNAMIC OPTICAL
SCATTER CHARACTERISTICS OF SPACE TARGET

Abstract

Exact and reliable dynamic optical scatter characteristics of space target, can not only be used for the design and development of optical sensor as well as the research of algorithm for target capture, recognition and tracking, but also can offer reference bases for the flow programming of space test. A set of simulation, measurement and verification system for the dynamic optical scatter characteristics of space target is introduced in this paper. The simulation problem of dynamic optical scatter characteristics of space target is solved, under the circumstance of laboratory with azimuth angle and pitch angle of solar illumination, laser emitting as well as different azimuth angle and pitch angle of observation. The dynamic optical scatter characteristics of space target can be obtained directly by such system, and the test data can be used for the verification of the analyzing model for the optical scatter characteristics of space target.