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论文

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### 比相单脉冲雷达测角与角闪烁研究

王祖林<sup>1</sup>, 张孟<sup>1</sup>, 段世忠<sup>2</sup>, 周荫清<sup>2</sup>

1. 北京航空航天大学201 教研室, 北京 100083 ;2. 北京航空航天大学203 教研室, 北京 100083

### RESEARCHING ABOUT ANGLE MEASUREMENT OF PHASE COMPARISON MONOPULSE RADAR AND ANGULAR GLINT

WANG Zu-lin<sup>1</sup>, ZHANG Meng<sup>1</sup>, DUAN Shi-zhong<sup>2</sup>, ZHOU Yin-qing<sup>2</sup>

1. Faculty 201, Beijing University of Aeronautics and Astronautics, Beijing 100083, China; 2. Faculty 203, Beijing University of Aeronautics and Astronautics, 100083, China

摘要

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**摘要** 比相单脉冲雷达采用和差通道接收信号比相的方法测角。一般认为,雷达事实上并不是在测量目标的方向,而是在测量目标的角闪烁方向。从特殊的两点目标出发,分析了单点目标和复杂目标下比相单脉冲雷达和差通道方式测角的原理与内在异同,探讨了比相单脉冲雷达测角与角闪烁的关系,提出有关雷达测角的新的观点。

**关键词:** 角闪烁 角闪烁线偏差 比相单脉冲雷达 复杂目标

**Abstract:** The phase comparison monopulse radar measures angles by comparing the phase of the difference channel signals with the phase of the sum channel signal. It has been generally accepted that what the radar measures is not the directions of the target, but angular glint errors. Starting with a special two point target here, this paper analyzes the principle of means of phase comparison monopulse radar used to measure the angles, discusses the internal relation between angle measurements of phase comparison monopulse radar and angular glints, and puts forward new viewpoints about radar angle measurements.

**Keywords:** angular glint linear glint error phase comparison monopulse radar complex target

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