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Incidents Signal Character Analysis in Nuclear Explosion Infrasonic Detection

This paper analyzes the characteristics of disturbing incident in the infrasonic detection of nuclear explosion. After data preprocessing, such as mean removal, atmospheric disturbance removal, filtering and normalization, etc., the infrasonic signal characteristics of lightning, chemical explosion and satellite launch events are analyzed through spectrum and statistical methods. Finally, spectrum characteristics of disturbing incident infrasonic signal are obtained according to statistical conclusions. The analysis results show that the acquired infrasonic signal characteristics of lightning, chemical explosion and satellite launch event are different from those of nuclear explosion, and this characteristic value can be used as one of the feature vectors of nuclear explosion infrasonic detection and recognition.

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