

ICS 01.040.49

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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 30114.7-2014

**Terminology for space science and applications - Part 7:
Microgravity science**

空间科学及其应用术语 第7部分：微重力科学

Issued on: December 5, 2014

Implemented on: April 1, 2015

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

Table of Contents

Foreword	I
1 Scope	1
2 Generic term microgravity	1
3 Micro-gravity fluid physics science and technology terminology	3
4 Microgravity Combustion Science and Technology 8 terms	3
5 Space material science and technical terms	12
6 Basic physical space science and technology terminology	17
References	29
Index	30

Foreword

GB/T 30114 "term space science and its applications" is divided into eight sections.

- Part 1. General basis;
- Part 2. Space Physics;
- Part 3. space astronomy;
- Part 4. Lunar and Planetary Science;
- Part 5. space life sciences and biotechnology;
- Part 6. Aerospace Medicine;
- Part 7. microgravity science;
- Part 8. Space Earth Science.

This section GB/T Part of 730,114.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This part of the National Standardization Technical Committee on Space Applications and Science (SAC/TC312) centralized.

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Space Science and Its Application term

Part 7. Microgravity Science

1 Scope

GB/T 30114 in this section defines the space microgravity sciences requires a unified science and technology commonly used terms and definitions.

This section applies to space microgravity science-related standards preparation, technical documents, and related engineering and scientific exchanges application.

2 generic term microgravity

2.1 Microgravity microgravityenvironment

Microgravity microgravitycondition

Microgravity microgravity

Note: In the experiments in space but also refers to the residual acceleration is less than 10-2g environmental conditions.

[GB/T 30114.1-2013, the definition 3.21]

2.2 Microgravity Science microgravityscience

Study material movement in microgravity environment, changes in behavior and rules and disciplines.

Example. The basic laws of physics research in the microgravity environment of space, the movement of fluid and combustion characteristics of the phase change material, crystallization, biology, biological phenomena regulatory changes Law and so on.

[GB/T 30114.1-2013, the definition 2.53]

2.3 Microgravity fluid physics microgravityfluidphysics

Morphology and physical laws of fluid motion and mechanism of interdisciplinary research in the microgravity environment of liquids, gases and other substances dispersion.

Note: The research for the space material science, space life science research and biotechnology, aerospace medicine and basic fluid physics provide theoretical guidance; to

Spacecraft engineering design (hot) fluid management theory support, propulsion and so on.

[GB/T 30114.1-2013, the definition 2.54]

2.4 Microgravity Combustion Science microgravitycombustionscience

Microgravity environment of substance combustion phenomena, processes and rules and disciplines.

[GB/T 30114.1-2013, the definition 2.55]

2.5 Space materials science materialsscienceinspace

In microgravity, space radiation and high vacuum space environment and other conditions, and changes in the structure and properties of the preparation process of the law research materials,

Materials and physical and chemical properties change and the causative behavior disciplines.

Note: In microgravity research conditions as the main factor, also known as microgravity materials science.

[GB/T 30114.1-2013, the definition 2.56]