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

GB/T 18978.171-2024

**Ergonomics of human-system interaction - Part 171: Guidance
on software accessible design**

人-系统交互工效学 第171部分：软件无障碍设计指南
(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 171 of GB/T 18978.GB/T 18978 has published the following parts.

--- Ergonomic requirements for office work using visual display terminals (VDTs) Part 1:

Overview;

--- Ergonomic requirements for office work using visual display terminals (VDTs) Part 2: Guidance on task requirements;

--- Ergonomic requirements for office work using visual display terminals (VDTs) Part 10: Dialogue principles;

--- Ergonomic requirements for office work using visual display terminals (VDTs) Part 12: Information presentation;

--- Ergonomic requirements for office work using visual display terminals (VDTs) Part 13: User guide;

--- Ergonomic requirements for office work using visual display terminals (VDTs) Part 16: Direct operation dialogue;

--- Ergonomics of human-system interaction Part 11: Usability. Definitions and concepts;

--- Ergonomics of human-system interaction Part 20: Ergonomic methods for barrier-free design;

--- Ergonomics of human-system interaction Part 143: Forms;

--- Ergonomics of human-system interaction Part 151: Guidelines for Internet user interfaces;

--- Ergonomics of human-system interaction Part 171: Guidelines for software accessibility design;

--- Ergonomics of human-system interaction Part 210: Human-centered interactive system design;

--- Ergonomics of human-system interaction Part 300: Overview of requirements for electronic visual displays;

--- Ergonomics of human-system interaction Part 304: User performance test methods for electronic visual displays;

--- Ergonomics of human-system interaction Part 307: Analysis and compliance test methods for electronic visual displays;

--- Ergonomics of human-system interaction Part 400: Principles and requirements for physical input devices.

This document is equivalent to ISO 9241-171:2008 "Ergonomics of human-system interaction Part 171: Guidelines for software accessibility design".

Introduction

GB/T 18978 ergonomics national standards correspond to ISO 9241 international standards and originally consisted of 17 parts.

This series of standards provides the ergonomic requirements for office work using visual display terminals. During the international standard review, the ISO 9241 series was reviewed.

The general title of ISO 9241 is "Human-system interaction engineering".

The "Econometrics" reflects the adjusted changes, and ISO 9241 is consistent with the overall title and scope of ISO/TC159/SC4 subcommittee.

After the adjustment, the series of standards composed of multiple parts are numbered with "hundred", among which the 100 series is the software interface and the 200 series is the people-centered the 300 series covers visual displays, the 400 series covers physical input devices, etc. Other ISO 9241 series not included in the "hundred" series include.

For the standards listed above, the old numbers are still used. For example, for national standards equivalent to ISO 9241-11:2018, the number is still GB/T 18978.11.

Corresponding to the ISO 9241 series of standards, the GB/T 18978 "hundred" series of standards is planned to consist of the following series.

---100 Series. Software Ergonomics. The purpose is to identify processes and methods related to software ergonomics.

---200 Series. Human-centered Design. The goal is to provide human-centered design principles throughout the life cycle of interactive systems.

and activities provide requirements and suggestions.

---300 Series. Displays and display-related hardware. The purpose is to provide methods for the ergonomic design and evaluation of visual displays.

laws, compliance measures and guidelines.

---400 Series. Physical Input Devices. The purpose is to provide ergonomic design criteria, selection procedures, testing and Evaluation method.

---500 Series. Workspace. The purpose is to provide ergonomic principles and methods for the design of interactive system space environments.

---600 Series. Environmental Ergonomics. The purpose is to provide environmental ergonomics requirements and the impact of the environment on people.

---700 Series. Control Rooms. The purpose is to provide requirements, recommendations and guidance for the ergonomic design and evaluation of control rooms.