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INTERNATIONAL ELECTROTECHNICAL VOCABULARY
Chapter 111—PHYSICS AND CHEMISTRY
Section 111-01—PHYSICAL CONCEPTS

STANDARDS ASSOCIATION OF AUSTRALIA
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The following interests are represented on Committee TE/13:

Australian Electrical and Electronic Manufacturers Association Limited
Confederation of Australian Industry
Department of Aviation
Department of Defence
Department of Housing and Construction
Departments of Technical and Further Education, N.S.W. and Victoria
Electricity Supply Association of Australia
Institute of Draftsmen, Australia
Institution of Radio and Electronics Engineers, Australia
Melbourne and Metropolitan Board of Works
Queensland Chamber of Mines
Railways of Australia Committee
The Technical Press
Telecom Australia

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AUSTRALIAN STANDARD

INTERNATIONAL ELECTROTECHNICAL VOCABULARY

CHAPTER 111: PHYSICS AND CHEMISTRY

SECTION 111-01: PHYSICAL CONCEPTS

AS 1852(111-01)—1983

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PREFACE

This standard was prepared by the Association's Committee on Symbols, Units and Quantities for Electrotechnology under the authority of both the Telecommunications and Electronics Standards Board and the Electrical Standards Board. This standard supersedes in part, AS 1852(05)—1970, International Electrotechnical Vocabulary, Fundamental Definitions, which is now withdrawn.

This standard is identical with and has been reproduced from IEC 50(111-01)—1982. Acknowledgement is accordingly made to the International Electrotechnical Commission for this assistance.

This standard is one of the AS 1852 series of standards. In the past, this series has consisted of direct endorsements of the IEC 50 series of the International Electrotechnical Vocabulary. In future, newly issued parts of IEC 50, where appropriate, will be issued as Australian standards, i.e. not endorsements. The full text of the definitions in English, French and Russian has been included as some definitions are considered to be incomplete when produced in one language.

The purpose of the AS 1852 series is to provide a glossary of terms used in electrical engineering. The series lists terms in English, French and Russian, and in some cases Spanish. It is intended that other Australian standards will refer to AS 1852 and not repeat any definitions.

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Remarques:

1. Dans les définitions qui suivent, «corps» est employé au sens le plus général comprenant les formes solides, liquides et gazeuses d'un spécimen donné de matière.

2. Les locutions «quantité A par unité de quantité B» ou «quantité A unitaire» désignent la limite du quotient de la quantité ΔA par la quantité ΔB, c'est-à-dire,

$$\lim_{\Delta B \to 0} (\Delta A / \Delta B).$$

3. Dans tous les chapitres de la physique, il est nécessaire d'accepter un minimum de notions axiomatiques. Dans la section 111-01, la masse et la charge électrique sont introduites axiomatiquement.

Remarks:

1. In the following definitions, "body" is used in its most general sense including the solid, liquid and gaseous forms of a given sample of matter.

2. The phrase "quantity A per unit of quantity B" means the limit of the quotient of quantity ΔA by quantity ΔB, i.e.

$$\lim_{\Delta B \to 0} (\Delta A / \Delta B).$$

3. In every branch of physics it is necessary to accept a minimum number of axiomatic concepts. In section 111-01, mass and electric charge are introduced axiomatically.

Замечания:

1. В нижеследующих определениях слово «тело» применяется в наиболее общем смысле и обозначает твердую, жидкую и газообразную формы рассматриваемого объекта материи.

2. Выражение «величина A через единицу величины B» означает предел отношения величины ΔA к величине ΔB, т. е.

$$\lim_{\Delta B \to 0} (\Delta A / \Delta B).$$

3. Во всех главах, относящихся к физике, необходимо принять некоторый минимум понятий, введенных аксиоматически. В разделе 111-01 такими понятиями являются масса и электрический заряд.