

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION

### R 31

#### PART II

## QUANTITIES AND UNITS OF PERIODIC AND RELATED PHENOMENA

1<sup>st</sup> EDITION

February 1958

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## Brief History

The ISO Recommendation R 31, Part II, *Quantities and Units of Periodic and Related Phenomena*, was drawn up by Technical Committee ISO/TC 12, *Quantities, Units, Symbols, Conversion Factors and Conversion Tables*, the Secretariat of which is held by the Danish Standards Association, Dansk Standardiseringsråd (DS).

The Secretariat prepared three successive draft proposals, which were considered by the Technical Committee, by correspondence and at two meetings, held in Copenhagen, in November 1953 and June 1955.

A fourth draft proposal (document ISO/TC 12 (Secretariat-63) 185) was circulated to the Technical Committee in January 1956 and was adopted by it by correspondence as a Draft ISO Recommendation.

It should be noted that the following international organizations received the various drafts and participated in the discussions of the meetings of Technical Committee ISO/TC 12:

Comité International des Poids et Mesures,  
International Electrotechnical Commission,  
International Union of Pure and Applied Physics,  
International Union of Pure and Applied Chemistry,  
Organisation Internationale (formerly, Comité International)  
de Métrologie Légale.

On 30 August 1956, the Draft ISO Recommendation was submitted to all the ISO Member Bodies and approved by the following 25 Member Bodies (out of a total of 37):

|          |         |               |                         |
|----------|---------|---------------|-------------------------|
| Austria  | Germany | Mexico        | Spain                   |
| Belgium  | Greece  | Netherlands   | Sweden                  |
| Bulgaria | Hungary | * New-Zealand | Switzerland             |
| * Canada | India   | Norway        | * Union of South Africa |
| Denmark  | Ireland | Pakistan      | United Kingdom          |
| France   | Japan   | Romania       | U.S.A.                  |
|          |         |               | U.S.S.R.                |

Finland, Italy and Yugoslavia failed to approve the Draft, because of their objections to certain items.

The Secretariat of ISO/TC 12 made some editorial amendments in the Draft to comply with comments made by various Member Bodies.

The revised Draft ISO Recommendation was then submitted to the ISO Council, which decided, in February 1958, by correspondence, to accept it as an ISO RECOMMENDATION.

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\* These Member Bodies stated that they had no objection to the Draft being approved.

## Introduction

This ISO Recommendation, containing a table of *Quantities and Units of Periodic and Related Phenomena*, is part of a more comprehensive publication dealing with quantities and units in various fields of science and technology.

The first part of this more comprehensive publication is the ISO Recommendation R 31/Part I:

*Fundamental Quantities and Units of the MKSA System and  
Quantities and Units of Space and Time.*

General information regarding the arrangement of the tables and the symbols and abbreviations used is to be found in the introduction to this latter document, where the full definitions of fundamental units are given as an appendix.

The name MKSA System quoted above is provisional. See also Appendix on page 6.