

Optics and optical instruments - Diffractive optics - Vocabulary

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 15902:2005 sisaldab Euroopa standardi EN ISO 15902:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.04.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 15902:2005 consists of the English text of the European standard EN ISO 15902:2005.</p> <p>This document is endorsed on 28.04.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This International Standard defines the basic terms for diffractive optical elements for free space propagation.</p>	<p>Scope: This International Standard defines the basic terms for diffractive optical elements for free space propagation.</p>
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ICS 01.040.31, 31.260

Võtmesõnad:

ICS 01.040.31; 31.260

English version

Optics and photonics
Diffraction optics
Vocabulary
(ISO 15902:2004)

Optique et photonique – Optique dif-
fractive – Vocabulaire
(ISO 15902:2004)

Optik und Photonik – Diffraktive
Optik – Begriffe (ISO 15902:2004)

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CEN

European Committee for Standardization
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Foreword

International Standard

ISO 15902:2004 Optics and photonics – Diffractive optics – Vocabulary, which was prepared by ISO/TC 172 'Optics and optical instruments' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 123 'Lasers and laser-related equipment', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by September 2005 at the latest.

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Endorsement notice

The text of the International Standard ISO 15902:2004 was approved by CEN as a European Standard without any modification.

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Introduction

The term diffractive optical element is used for those optical elements which convert an input wavefront to a predetermined output wavefront (or wavefronts) in free space by means of the phenomenon of diffraction. There has been a rapid increase in the use of diffractive optical elements, especially in the field of optical data storage, and they are essential components in optical and electro-optical systems. They are used in a wide variety of applications.

1 Scope

This International Standard defines the basic terms for diffractive optical elements for free space propagation. The purpose of these definitions is to provide an agreed-upon common terminology that will reduce ambiguity and misunderstanding and thereby aid in the development of the field of diffractive optics.

2 Symbols and units of measurement

Table 1 lists symbols and units that are defined in detail in Clause 3.

1 Domaine d'application

La présente Norme internationale définit les termes de base de l'optique diffractive et des éléments d'optique diffractive en espace libre. L'objet de ces définitions est de fournir une terminologie commune reconnue qui limitera les ambiguïtés et les incompréhensions et de ce fait apportera une aide au développement du domaine de l'optique diffractive.

2 Symboles et unités de mesure

Le Tableau 1 donne la liste des symboles et des unités définis en détail à l'Article 3.