

INTERNATIONAL STANDARD

ISO 24113

First edition
2010-07-01

Space systems — Space debris mitigation requirements

Systèmes spatiaux — Exigences de mitigation des débris spatiaux

ISO 24113:2010 - Preview only Copy via ILNAS e-Shop



Reference number
ISO 24113:2010(E)

© ISO 2010

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	3
4.1 Symbols.....	3
4.2 Abbreviated terms	3
5 Protected regions	4
5.1 General	4
5.2 LEO protected region	4
5.3 GEO protected region	4
6 Technical requirements	5
6.1 Avoiding the intentional release of space debris into Earth orbit during normal operations.....	5
6.1.1 General	5
6.1.2 Combustion-related products	5
6.2 Avoiding break-ups in Earth orbit	5
6.2.1 Intentional break-ups	5
6.2.2 Accidental break-ups	5
6.3 Removing a spacecraft or launch vehicle orbital stage from the protected regions after end of mission	5
6.3.1 Probability of successful disposal	5
6.3.2 GEO disposal manoeuvres.....	6
6.3.3 LEO disposal manoeuvres	6
6.3.4 Re-entry	6
7 Space debris mitigation plan.....	7
Annex A (informative) Probability of successful disposal	8
Annex B (informative) Post-launch life cycle phases of a launch vehicle or spacecraft	11
Bibliography.....	13