

# INTERNATIONAL STANDARD

**IEC  
801-2**

Second edition  
1991-04

**Electromagnetic compatibility for industrial-  
process measurement and control equipment**

**Part 2:**  
**Electrostatic discharge requirements**

*Compatibilité électromagnétique pour les  
matériels de mesure et de commande dans  
les processus industriels*

*Partie 2:*  
*Prescriptions relatives aux décharges  
électrostatiques*

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# Iec 801

**Eugene R. Hnatek**



## Iec 801 :

**Handbook of Electromagnetic Compatibility** Reinaldo Perez, 2013-10-22 This book gives readers a concise understanding of the fundamentals of EMC from basic mathematical and physical concepts through present computer age methods used in analysis design and tests With contributions from leading experts in their fields the text provides a comprehensive overview Fortified with information on how to solve potential electromagnetic interference EMI problems that may arise in electronic design practitioners will be better able to grasp the latest techniques trends and applications of this increasingly important engineering discipline Handbook of Electromagnetic Compatibility contains extensive treatment of EMC applications to radio and wireless communications fiber optics communications and plasma effects Coverage of EMC related issues includes lightning electromagnetic pulse biological effects and electrostatic discharge Practical examples are used to illustrate the material and all information is presented in an accessible and organized format The text is intended primarily for those practicing engineers who need a good foundation in EMC but it will also interest faculty and students since a good portion of the material covered can find use in the classroom or as a springboard for further research The chapters are written by experts in the field Details the fundamental principles then moves to more advanced topics Covers computational electromagnetics applied to EMC problems Presents an extensive treatment of EMC applications to Radio and wireless communications Fiber optic communications Plasma effects Wired circuits Microchips Includes practical examples Fiber optic Communications Plasma effects Wired circuits Microchips Includes practical examples

**Electromagnetic Compatibility in Medical Equipment** William D. Kimmel, Daryl Gerke, 2018-02-06 Co published with the IEEE Press this book is a practical hands on guide to EMC issues for medical device designers and installers It addresses electromagnetic interference and covers the basics of EMC design physics and installation minimizing theory and concentrating upon the correct way to ground and shield Covering EMC from the inside out the book provides the basics of electronics discusses and evaluates problems and common causes and explores effective remedial techniques at three levels circuit box and interconnect It contains appendices that provide important reference material such as constants and conversion factors

*A Handbook for EMC Testing and Measurement* David Morgan, 1994-06-30 This major reference book is aimed at engineers and technical managers concerned with EMC electromagnetic compatibility It explains why EMC testing is necessary what standards must be met how such testing is carried out and therefore how to prepare for it what accuracy and repeatability can be expected and when to test

Practical Variable Speed Drives and Power Electronics Malcolm Barnes, 2003-06-16 Typical practical applications of VSDs in process control and materials handling such as those for pumping ventilation conveyers compressors and hoists are covered in detail Provides a fundamental understanding of the installation operation and troubleshooting of Variable Speed Drives VSDs Includes practical coverage of key topics such as troubleshooting control wiring operating modes braking types automatic restart harmonics electrostatic discharge and EMC EMI issues Essential

reading for electrical engineers and those using VSDs for applications such as pumping ventilation conveyors and hoists in process control materials handling and other industrial contexts

**Interferencias electromagnéticas en sistemas electrónicos** Josep Balcells,1991-10 El problema de las interferencias electromagnéticas en los sistemas electrónicos ha ido adquiriendo importancia conforme la profusión de las aplicaciones de la electrónica ha aumentado la contaminación electromagnética del entorno de trabajo de los circuitos La situación se ha visto agravada al crecer la velocidad y la densidad de integración de los circuitos integrados que los ha hecho más susceptibles Todo ingeniero electrónico con funciones de diseño o producción tarde o temprano se debe afrontar con este problema El objetivo de este libro es dar los conceptos y la metodología de solución de los problemas de interferencias electromagnéticas en los sistemas electrónicos Se ofrece una serie de conceptos básicos organizados sistemáticamente El libro está organizado en cuatro partes que corresponden a la descripción del problema sus soluciones la aplicación general de estas y una parte de normas y mediciones relativas a las interferencias y la compatibilidad En apéndices al final se han agrupado los conceptos generales más frecuentes las definiciones más comunes las unidades y un resumen de los métodos generales de reducción de las interferencias electromagnéticas Esta obra es de interés para todos los ingenieros y profesionales de los sectores eléctrico y electrónico así como estudiantes de las carreras de ingeniería electrónica en particular ingenieros superiores e ingenieros técnicos de telecomunicación industriales e informática Puede ser útil en los ámbitos eléctrico y electrónico en el diseño la producción las instalaciones y la calidad Índice resumido del libro Parte I El problema de las interferencias electromagnéticas 1 Introducción al problema de las interferencias 2 Fuentes de interferencia I Imperfecciones en componentes pasivos 3 Fuentes de interferencia II Transitorios conmutaciones y descargas 4 Acoplamientos de las interferencias 5 Susceptibilidad de componentes y circuitos electrónicos 6 Descargas electrostáticas en semiconductores Parte II Soluciones al problema de las interferencias 7 Blindajes o pantallas 8 Masas y tierras 9 Equilibrado y medidas diferenciales 10 Aislamiento Métodos magnéticos y páticos 11 Filtrado I técnicas de desacoplamiento y distribución de alimentación 12 Filtrado II filtros y otras técnicas 13 Protección de contactos y relés 14 Protección contra descargas atmosféricas y otras sobretensiones Parte III Aplicaciones 15 Interferencias electromagnéticas en subsistemas analógicos 16 Interferencias electromagnéticas en subsistemas digitales 17 Interferencias electromagnéticas en instalaciones de potencia 18 Interferencias electromagnéticas en fuentes de alimentación Parte IV Normas y Medidas 19 Normativa 20 Instrumentos de simulación y medida de interferencias Apéndices Apéndice 1 El campo eléctrico Apéndice 2 El campo magnético Apéndice 3 Radiación de energía electromagnética Apéndice 4 El decibelio Apéndice 5 Resumen de métodos generales de reducción de interferencias electromagnéticas Apéndice 6 Unidades de medida relacionadas con las interferencias

**EMC for Systems and Installations** Tim Williams,Keith Armstrong,1999-12-06 This is a guide for the system designers and installers faced with the day to day issues of achieving EMC and will be found valuable across a wide range of roles and sectors including process control manufacturing medical IT and building management The EMC issues

covered will also make this book essential reading for product manufacturers and suppliers and highly relevant for managers as well as technical staff The authors approach is thoroughly practical all areas of installation EMC are covered with particular emphasis on cabling and earthing Students on MSc and CPD programmes will also find in this book some valuable real world antidotes to the academic treatises The book is presented in two parts the first is non technical and looks at the need for EMC in the context of systems and installations with a chapter on the management aspects of EMC The second part covers the technical aspects of EMC looking at the various established methods which can be applied to ensure compatibility and setting these in the context of the new responsibilities facing system builders EMC for Systems and Installations is designed to complement Tim Williams highly successful EMC for Product Designers Practical guide to EMC design issues for those involved in systems design and installation Complementary title to Williams bestselling EMC for Product Designers Unique guidance for installers on EMC topics      **System Level ESD Co-Design** Charvaka Duvvury,Harald

Gossner,2017-05-05 An effective and cost efficient protection of electronic system against ESD stress pulses specified by IEC 61000 4 2 is paramount for any system design This pioneering book presents the collective knowledge of system designers and system testing experts and state of the art techniques for achieving efficient system level ESD protection with minimum impact on the system performance All categories of system failures ranging from hard to soft types are considered to review simulation and tool applications that can be used The principal focus of System Level ESD Co Design is defining and establishing the importance of co design efforts from both IC supplier and system builder perspectives ESD designers often face challenges in meeting customers system level ESD requirements and therefore a clear understanding of the techniques presented here will facilitate effective simulation approaches leading to better solutions without compromising system performance With contributions from Robert Ashton Jeffrey Dunnihoo Micheal Hopkins Pratik Maheshwari David Pomerence Wolfgang Reinprecht and Matti Usumaki readers benefit from hands on experience and in depth knowledge in topics ranging from ESD design and the physics of system ESD phenomena to tools and techniques to address soft failures and strategies to design ESD robust systems that include mobile and automotive applications The first dedicated resource to system level ESD co design this is an essential reference for industry ESD designers system builders IC suppliers and customers and also Original Equipment Manufacturers OEMs Key features Clarifies the concept of system level ESD protection Introduces a co design approach for ESD robust systems Details soft and hard ESD fail mechanisms Detailed protection strategies for both mobile and automotive applications Explains simulation tools and methodology for system level ESD co design and overviews available test methods and standards Highlights economic benefits of system ESD co design      *EMC for Product Designers* Tim Williams,2001 Widely regarded as the standard text on EMC Tim Williams book provides all the key information needed to meet the requirements of the latest EMC Directive Most importantly it shows how to incorporate EMC principles into the product design process avoiding cost and performance penalties meeting the needs of specific standards and resulting in a

better overall product As well as covering the very latest legal requirements the fourth edition has been thoroughly updated in line with the latest best practice in EMC compliance and product design Coverage has been considerably expanded to include the R TTE and Automotive EMC Directives as well the military aerospace standards of DEF STAN 59 41 and DO160E A new chapter on systems EMC is included while short case studies demonstrate how EMC product design is put into practice Tim Williams has worked for a variety of companies as an electronic design engineer over the last 25 years He has monitored the progress of the EMC Directive and its associated standards since it was first made public He now runs his own consultancy specialising in EMC design and test advice and training Includes the compliance procedures of the latest EMC Directive 2004 108 EC Short case studies demonstrating how EMC product design is put into practice Packed full with many new chapters including The R TTE Directive and the Automotive EMC Directive looking at compliance aspects of radio and telecom terminal equipment and automotive electronic products New chapter on military aerospace standards of DEP STAN 59 41 and DO1 60E New chapter on systems EMC

**Electrical Interference Handbook** NORMAN ELLIS,1998-06-03 The Directive on EMC and others affecting the electrical and electronics industry are now firmly in place In this updated guide the causes effects and penalties of electrical interference are explained Remedies such as methods of minimising emissions and maximising immunity are surveyed This handbook gives an insight into the various national and international standards and test methods Case studies illustrate the challenge in various major industrial sectors including buildings domestic appliances and white goods IT transport and automotive lighting medical equipment and security Guide to the minefield of legislation in the modern electronics electrical goods industry Suggests practical solutions Appendices provide an essential reference section

**Reliable Design of Medical Devices** Richard C. Fries,2016-04-19 As medical devices become even more intricate concerns about efficacy safety and reliability continue to be raised Users and patients both want the device to operate as specified perform in a safe manner and continue to perform over a long period of time without failure Following in the footsteps of the bestselling second edition Reliable D

**Electromagnetic Compatibility** David Weston,2017-12-19 This totally revised and expanded reference text provides comprehensive single source coverage of the design problem solving and specifications of electromagnetic compatibility EMC into electrical equipment systems including new information on basic theories applications evaluations prediction techniques and practical diagnostic options for preventing EMI through cost effective solutions Offers the most recent guidelines safety limits and standards for human exposure to electromagnetic fields Containing updated data on EMI diagnostic verification measurements as well as over 900 drawings photographs tables and equations 500 more than the previous edition Electromagnetic Compatibility Principles and Applications Second Edition

**Electromagnetic Compatibility in Power Electronics** László Tihanyi,1995 Electronics professionals will find this book invaluable when designing power equipment because it describes in detail how to cope with the problem of electromagnetic interference The author shows how to meet the exacting US and European EMC standards for conducted

emissions The book includes a wide range of EMI analysis techniques An important focus is on the energy content of interference transient signals traditional analysis concentrates on amplitude and frequency This provides a more accurate picture of the EMI situation For those who do not want or need detailed analysis techniques many approximation methods are also provided These simplified techniques give accurate results for all but the most stringent applications The book contains several worked examples and an extensive bibliography and is sure to be useful to electronic design engineers and others who need to meet international EMC regulations and standards Laszlo Tihanyi has worked on EMC for over 20 years Formerly Head of the Department of Power Electronics at the Hungarian Research Institute for the Electrical Industry he focused primarily on solving EMI problems in electronic systems and developing a dimensioning method for power line filters

Environmental Requirements for Electromechanical and Electrical Equipment Ray Tricker, Samantha Tricker, 1999-01-25 Environmental Requirements for Electromechanical and Electrical Equipment is the definitive reference containing all of the background guidance typical ranges details of recommended test specifications case studies and regulations covering the environmental requirements on designers and manufacturers of electrical and electromechanical equipment worldwide The recent introduction of the European EMC directive is just one aspect of the requirements placed upon manufacturers and designers of electrical equipment There are numerous national and international standards and specifications that describe the application environment in which equipment must function Factors that must be taken into account include temperature solar radiation humidity pressure weather and the effects of water and salt pollutants and contaminants mechanical stresses and vibration ergonomic considerations electrical safety including EMC reliability and performance A broad range of standard tests exist which must be passed by equipment if it is to fulfil the requirements placed upon it Ray Tricker is the author of a number of books describing the regulatory framework within which the electronics and electrical equipment industry must function including Quality and Standards in Electronics also published by Newnes This latest volume will give the designer or manufacturer a first point of reference when negotiating the minefield that is the global market for their products Companion to Quality and Standards in Electronics Covers essential tests and regulations for equipment designers and manufacturers Likely to be of interest to major companies worldwide **Compliance Engineering ... Reference**

**Guide**, 2000 Introduction to EMC John Scott, Clinton Van Zyl, 1997-09-04 This is the clear guide for non specialists to electromagnetic compatibility EMC the effects of electromagnetic radiation and the European EMC Directive which is now in force This book helps by explaining the basic principles of EMC how it may be controlled in practice through filtering shielding appropriate printed circuit board design and other means Electrostatic discharge ESD and surge protection are discussed The growing concern about the effects of electromagnetic waves and fields on health are examined in detail This introduction provides beginners technical and non technical alike with a basic guide to the principles of EMC This will prove essential reading for the thousands of people close to despair giving them the underlying insight in clear words that is

needed to comply with the EMC Directive and therefore opens the door to continued trading in Europe and the World  
Beginner s guide to EMC ideal for non technical staff Vital for all businesses who export to either Europe or the rest of the world  
*Process Control Engineering* Martin Polke,2008-09-26 This book surveys methods problems and tools used in process control engineering Its scope has been purposely made broad in order to permit an overall view of this subject This book is intended both for interested nonspecialists who wish to become acquainted with the discipline of process control engineering and for process control engineers who should find it helpful in identifying individual tasks and organizing them into a coherent whole A central concern of this treatment is to arrive at a consistent and comprehensive way of thinking about process control engineering and to show how the several specialities can be organically fitted into this total view

Practical Reliability Of Electronic Equipment And Products Eugene R. Hnatek,2002-10-25 Practical Reliability of Electronic Equipment and Products will help electrical electronics manufacturing mechanical systems design and reliability engineers electronics production managers electronic circuit designers and upper level undergraduate and graduate students in these disciplines  
**EMC at Component and PCB Level** Martin O 'Hara,1998-04-08 This book provides the knowledge and good design practice for the design or test engineer to take the necessary measures to improve EMC performance and therefore the chance of achieving compliance early on in the design process There are many advantages for both the component supplier and consumer of looking at EMC at component and PCB level For the suppliers not only will their products have the competitive edge because they have known EMC performance but they will be prepared should EMC compliance become mandatory in the future For consumers it is a distinct advantage to know how a component will behave within a system with regard to EMC Shows how to achieve EMC compliance early on in the design process Provides the knowledge to trace system EMC performance problems Follows best design practices  
**Statistical Electromagnetics** Richard Holland,2020-09-10 This book addresses the problem of treating interior responses of complex electronic enclosures or systems and presents a probabilistic approach Relationships for determining the statistics of the driving fields to apply to a circuit analysis code representing part of an enclosed system s writing are worked out Also addressed are limited spatial and frequency coherence essential to a statistically based field drive model This text gives examples different modeling and describes how to make interchange and optimize models  
*Plant Flow Measurement and Control Handbook* Swapna Basu,2018-08-22 Plant Flow Measurement and Control Handbook is a comprehensive reference source for practicing engineers in the field of instrumentation and controls It covers many practical topics such as installation maintenance and potential issues giving an overview of available techniques along with recommendations for application In addition it covers available flow sensors such as automation and control The author brings his 35 years of experience in working in instrumentation and control within the industry to this title with a focus on fluid flow measurement its importance in plant design and the appropriate control of processes The book provides a good balance between practical issues and theory and is



fully supported with industry case studies and a high level of illustrations to assist learning It is unique in its coverage of multiphase flow solid flow process connection to the plant flow computation and control Readers will not only further understand design but they will also further comprehend integration tactics that can be applied to the plant through a step by step design process that goes from installation to operation Provides specification sheets engineering drawings calibration procedures and installation practices for each type of measurement Presents the correct flow meter that is suitable for a particular application Includes a selection table and step by step guide to help users make the best decision Cover examples and applications from engineering practice that will aid in understanding and application

## **Iec 801 Book Review: Unveiling the Magic of Language**

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Iec 801** ," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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