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Nota di contenuto	Front cover; EMC for Product Designers; Copyright page; Contents; Preface; Part 1: Legislation and standards; Chapter 1: Introduction; What is EMC?; Portable electronic devices in aircraft; Interference to medical devices; Thermostats; The quacking duck; Compatibility between and within systems; Intra-system EMC; Inter-system EMC; When intra-system meets inter-system; The scope of EMC; Malfunction of control systems; Immunity of data and programme processing; Interference with radio reception; Disturbances of the mains supply; Power line telecoms; Other EMC issues; The compatibility gap Electromagnetic fields and human health CNIRP basic restrictions; Athermal effects; Chapter 2: The EMC Directive; History; The New Approach Directives; Background to the legislation; The first EMC Directive; The second EMC Directive; What changes?; Scope, requirements and exceptions; The CE mark and the paperwork; Manufacturing quality assessment; Fixed installations; Systems; Implementation, enforcement and sanctions; Compliance of apparatus with the Directive; Self certification and internal production control; The notified body; Testing; Using standards Action for compliance for a product manufacturer Chapter 3: The R&TTE Directive; The implementation of the R&TTE Directive; Scope;

Requirements; The process of conformity assessment; Procedures; Classes of radio transmitter; Notification; Information requirements; Marking of equipment and documentation; Chapter 4: Commercial standards; The standards making bodies; The International Electrotechnical Commission; CENELEC and ETSI; Generic standards - emissions; EN 61000-6-3: 2001 + A11: 2004; EN 61000-6-4: 2001; Main product standards: emissions; EN 55011: 1998 + A1: 1999 + A2: 2002

EN 55014-1: 2000 + A1: 2001 + A2: 2002EN 55022: 1998 + A1: 2000 + A2: 2003; Generic standards - immunity; EN 61000-6-1: 2001; EN 61000-6-2: 2005; Basic standards - EN 61000-3-X and -4-X; EN 61000-3-X; EN 61000-4-X; Product standards; Broadcast receivers and associated equipment; Household appliances, electric tools and similar apparatus; Lighting equipment; Information technology equipment; Professional AV and entertainment lighting equipment; Equipment for measurement, control and laboratory use; Fire, intruder and social alarm systems; Telecommunication network equipment; Radio equipment

Marine navigation equipment Medical electrical equipment; Future multi-media; Other product standards; Other standards not related to the EMC Directive; FCC Rules; Measurement standards; RF emissions limits; Chapter 5: Other standards and legislation; Automotive; The Automotive EMC Directive; ISO, CISPR and SAE standards; Vehicle manufacturers; Specialist requirements; Military; DEF STAN 59-41; MIL STD 461; Aerospace; DO-160/ED-14; Rail; Railway Group Standards; London Underground standards; EN 50121; Part 2: Testing; Chapter 6: RF emissions measurements; Emissions measuring instruments

Measuring receiver

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#### Sommario/riassunto

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

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