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	Nota di contenuto	Smart Card Applications; Contents; Foreword; Symbols and Notation; Abbreviations; 1 Overview of Smart Cards; 1.1 Card Classification; 1.2 Card Formats; 1.3 Card Elements; 1.3.1 Printing and labelling; 1.3.2 Embossing; 1.3.3 Hologram; 1.3.4 Signature panel; 1.3.5 Tactile elements; 1.3.6 Magnetic stripe; 1.3.7 Chip module; 1.3.8 Antenna; 1.4 Smart Card Microcontrollers; 1.4.1 Processor; 1.4.2 Memory; 1.4.3 Supplementary hardware; 1.4.4 Electrical characteristics; 2 Smart Card Operating Systems; 2.1 File Management; 2.1.1 File types; 2.1.2 File names; 2.1.3 File structures; 2.1.4 File attributes
		2.1.5 File selection2.1.6 Access conditions; 2.1.6.1 State-based access conditions; 2.1.6.2 Rule-based access conditions; 2.1.7 File life cycle; 2.2 Commands; 2.3 Data Transmission; 2.3.1 Answer to Reset (ATR); 2.3.2 Protocol Parameter Selection (PPS); 2.3.3 Transmission protocols; 2.3.3.1 T=0 transmission protocol for contact cards; 2.3.3.2 T=1 transmission protocol for contact cards; 2.3.3.3 USB transmission protocol for contact cards; 2.3.3.4 Contactless transmission protocols; 2.3.4 Secure Messaging; 2.3.5 Logical channels; 2.4 Special Operating System Functions
		2.4.1 Cryptographic functions2.4.2 Atomic processes; 2.4.3 Interpreter; 2.4.4 Application management; 3 Application Areas; 3.1 Smart Card

| Sommario/riassunto | A practical guide to the specification, design, and programming of smart card systems for working applications. More than 3 billion smartcards are produced every year. Generally defined as any pocket-sized card with embedded integrated circuits or chips, they have a huge number of applications including travel cards, chip and pin cards, pet tags, mobile phone SIMs and pallet trackers. Now with modern Smart Card technology such as Java Card and Basic Card it is possible for everyone to create his or her own applications on a smart card. This book provides generic solutions for progra |