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Nota di contenuto	Intro -- Acknowledgements -- About this book -- Contents -- About the Author -- 1 Logical Entropy -- 1.1 Introduction -- 1.2 Logical Information as the Measure of Distinctions -- 1.3 Classical Logical Probability and Logical Entropy -- 1.4 Information Algebras and Joint Distributions -- 1.5 Brief History of the Logical Entropy Formula -- References -- 2 The Relationship Between Logical Entropy and Shannon Entropy -- 2.1 Shannon Entropy -- 2.2 Logical Entropy, Not Shannon Entropy, Is a (Non-negative) Measure -- 2.3 The Dit-Bit Transform -- References -- 3 The Compound Notions for Logical and Shannon Entropies -- 3.1 Conditional Logical Entropy -- 3.2 Shannon Conditional Entropy -- 3.3 Logical Mutual Information -- 3.4 Shannon Mutual Information -- 3.5 Independent Joint Distributions -- 3.6 Cross-Entropies, Divergences, and Hamming Distance -- 3.6.1 Cross-Entropies -- 3.6.2 Divergences -- 3.6.3 Hamming Distance -- 3.7 Summary of Formulas and Dit-Bit Transforms -- References -- 4 Further Developments of Logical Entropy -- 4.1 Entropies for Multivariate Joint Distributions -- 4.2 An Example of Negative Mutual Information for Shannon Entropy -- 4.3 Entropies for Countable Probability Distributions -- 4.4 Metrical Logical Entropy = (Twice) Variance -- 4.5 Boltzmann and Shannon Entropies: A Conceptual Connection? -- 4.6 MaxEntropies for Discrete Distributions -- 4.7 The

Transition to Coding Theory -- 4.8 Logical Entropy on Rooted Trees --
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Nota di contenuto	Cover; Title Page; Copyright; Contents; Contributor list; Foreword; Preface; Chapter 1 Prehospital Emergency Medicine; Introduction; Prehospital emergency medicine; Training in PHEM; Summary; Further reading; Chapter 2 Activation and Deployment; Introduction; Activation

of prehospital services; Call handling; Call prioritization; Dispatch; Deployment of prehospital services; Further reading; Chapter 3 Personal Protective Equipment; Introduction; Legislation; The role of PPE; Essential personal protective equipment for prehospital practitioners; Helmet; Eye protection; Ear protection; Face masks; Clinical gloves; Extrication gloves; High-visibility clothing; Boots; Additional items; Specialist personal protective equipment; Helicopter Emergency Medical Services operations; Urban search and rescue; Tactical operations; Water operations; CBRN/HAZMAT incidents; Further reading; Chapter 4 Scene Safety and Assessment; Introduction; Safety; Where is the danger?; Communicate; Read the wreckage; Fall from height; Motor vehicle collisions; Everyone found?; Assessment of the patients; Method of extrication; Evacuation; Right hospital; Further reading; Chapter 5 The Primary Survey; Introduction; Further reading; Chapter 6 Airway Assessment and Management; Introduction; Airway assessment; Look; Listen; Feel; Difficult airway assessment; Airway management; Patient positioning; Suction; Foreign body removal; Facial fracture reduction; Manual airway manoeuvres; Basic airway adjuncts; Supraglottic airway devices; Endotracheal intubation; Cricothyroidotomy; Further reading; Chapter 7 Breathing Assessment and Management; Introduction; Respiratory failure; Assessment of breathing; Look; Feel; Listen; Monitor; Management of respiratory failure; Oxygen administration; Ventilation; Patient positioning; Life-threatening breathing problems: trauma; Tension pneumothorax; Open pneumothorax; Massive haemothorax; Flail chest; Other chest injuries; Life-threatening breathing problems: medical; Further reading; Chapter 8 Circulation Assessment and Management; Introduction; Hypovolaemic shock; Hypovolaemia in trauma; Cardiogenic shock; Distributive shock; Obstructive shock; Assessment of the circulation; Compensated shock; Decompensated shock; Aids to identifying shock; Management of the shocked trauma patient; Control of external haemorrhage; Control of non-compressible torso haemorrhage; Control of skeletal haemorrhage; Control of maxillofacial haemorrhage; Circulatory access; Fluid resuscitation; Minimal handling techniques; Tranexamic acid; Hypothermia mitigation; Triage; Management of the shocked medical patient; Further reading; Chapter 9 Prehospital Anaesthesia; Introduction; Evidence base; The team approach; Training and skills required; Minimum monitoring standards; Current recommended minimum standards for practice; Drugs; Procedural summary; General principles; Preparation; Pre-induction; Induction and intubation; Post intubation

Sommario/riassunto

Prehospital Emergency Medicine (PHEM) is a new and evolving field within Prehospital Care and involves the delivery of safe prehospital critical care to seriously ill or injured patients, and safe transfer to or between hospitals. It covers a broad range of medical and traumatic conditions, interventions, clinical providers and physical environments. ABC of Prehospital Emergency Medicine is the first text to provide a comprehensive overview of this field and with an international team of expert authors is essential reading to anyone involved in the delivery of Prehospital
