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Titolo	The respiratory system at a glance / / Jeremy P.T. Ward, Jane Ward, Richard M. Leach
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ISBN	1-118-76106-5
Edizione	[Fourth edition.]
Descrizione fisica	1 online resource (120 p.)
Collana	At a Glance
Disciplina	616.2
Soggetti	Respiratory organs - Diseases Respiratory Tract Diseases Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	The Respiratory System at a Glance; Contents; Preface to fourth edition; Units and symbols; List of abbreviations; About the companion website; Part 1 Structure and function; 1 Structure of the respiratory system: lungs, airways and dead space; Lungs; Airways; Dead space; 2 The thoracic cage and respiratory muscles; Thoracic cage; The sternum; The ribs and intercostal space; The diaphragm; Muscles of respiration; 3 Pressures and volumes during normal breathing; Functional residual capacity; Intrapleural pressure; Pressures, flow and volume during a normal breathing cycle; Lung volumes 4 Gas lawsFractional concentration and partial pressure of gases in a gas mixture; Water vapour pressure; The effect of pressure and temperature on gas volumes; Gases dissolved in liquids; Note on time-derivative symbols; 5 Diffusion; The alveolar-capillary membrane; Diffusion and perfusion limitation; Factors affecting diffusion across a membrane (Fick's and Graham's laws); Factors affecting DLco (TLco); 6 Lung mechanics: elastic forces; Assessing the stiffness of the lungs: lung compliance; Dynamic pressure-volume loops and dynamic compliance; The air-fluid interface lining the alveoli Surfactant7 Lung mechanics: airway resistance; Factors affecting airway resistance; Bronchial smooth muscle and epithelium; Transmural (airway-intrapleural) pressure gradient; RAW in disease; 8 Carriage of

oxygen; Anaemia and carbon monoxide poisoning; Other respiratory pigments; 9 Carriage of carbon dioxide; Hypoventilation and hyperventilation; Respiratory gas exchange ratio; 10 Acid-base balance; Sources of acid; Buffers; Control of acid-base balance; 11 Acid-base disorders; Respiratory and metabolic disorders; Anion gap and base excess; 12 Control of breathing I: chemical mechanisms Ventilatory response to changes in PAco2 and PAo2The central chemoreceptor; The peripheral chemoreceptors; Adaptation: chronic respiratory disease and altitude; 13 Control of breathing II: neural mechanisms; Brainstem and central pattern generator; Lung receptors and reflexes; 14 Pulmonary circulation and anatomical right-to-left shunts; Pulmonary circulation compared with the systemic circulation; Anatomical or true right-to-left shunts; Effect of right-to-left shunts on arterial blood gases; 15 Ventilation-perfusion mismatching Effect of the upright posture on perfusion, ventilation and VA/QVentilation-perfusion matching in disease; Effect of ventilation-perfusion mismatching on arterial blood gases; Assessment of ventilation-perfusion mismatching; 16 Exercise, altitude and diving; Exercise; Altitude; Diving; 17 Development of the respiratory system and birth; Fetal circulation and birth; 18 Complications of development and congenital disease; Problems associated with premature birth; Congenital diseases; 19 Lung defence mechanisms; Physical and physiological defences; Airway fluids and mucus Phagocytes and natural killers

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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 7841
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Soggetti	Computer science Machine theory Computer science—Mathematics Mathematical logic Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Mathematics of Computing Theory of Computation Mathematical Logic and Foundations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Open Multiparty Interaction.- Behaviour Protection in Modular Rule-Based System Specifications.- Quantitative Modal Transition Systems. - Bounded Model Checking of Recursive Programs with Pointers in K. - A Probabilistic Strategy Language for Probabilistic Rewrite Theories and Its Application to Cloud Computing.- Adaptable Transition Systems.- Compiling Logics.- Transformation Systems with Incremental Negative Application Conditions.- Statistical Model Checking for Composite Actor Systems.- Barbed Semantics for Open Reactive Systems.- Designing Domain Specific Languages – A Craftsman’s Approach for the Railway Domain Using Casl.- Satisfiability Calculus: The Semantic Counterpart of a Proof Calculus in General Logics. - Semantics of the Distributed Ontology Language: Institutes and

Institutions.- Formal Specification of the Kademlia and the Kad Routing Tables in Maude -- A Generic Program Slicing Technique Based on Language Definitions -- Distances between Processes: A Pure Algebraic Approach.

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the 21st International Workshop on Algebraic Development Techniques, WADT 2012, held in June 2012, in Salamanca, Spain. The 16 revised papers presented were carefully reviewed and selected from 25 presentations. The workshop deals with the following topics: foundations of algebraic specification; other approaches to formal specification including process calculi and models of concurrent, distributed and mobile computing; specification languages, methods, and environments; semantics of conceptual modeling methods and techniques; model-driven development; graph transformations, term rewriting and proof systems; integration of formal specification techniques; formal testing and quality assurance; validation, and verification.