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Nota di contenuto	Part I. Basic Introduction to Sleep -- Chapter 1. Normal Sleep in Humans -- Part II. Physiologic Regulation in Sleep and During Development -- Chapter 2. Control of Breathing During Sleep and Wakefulness in the Fetus, Newborn and Child -- Chapter 3. Normal Respiratory Physiology During Wakefulness and Sleep in Children.- Chapter 4. Upper Airway and Motor Control During Sleep -- Chapter 5. Endocrinology of Sleep -- Chapter 6. Thermoregulation and Metabolism -- Chapter 7. Sleep and Immunity -- Chapter 8. Sleep and the Gastrointestinal System -- Chapter 9. Circadian Rhythms in Children -- Part III. Sleep Mechanisms: Developmental Aspects -- Chapter 10. Developmental Aspects of Sleep -- Chapter 11. Humoral and Other Sleep Promoting Factors -- Part IV. Measurement of Sleep -- Chapter 12. Survey Tools and Screening Questionnaires to Pediatric Sleep Medicine -- Chapter 13. The Pediatric Patient With a Sleep Complaint - Initial Interview and Diagnostic Planning -- Chapter 14.

Best Practices for Accommodating Children in the Polysomnography Lab: Enhancing Quality and Patient Experience -- Chapter 15. Technologies in the Pediatric Sleep Lab: Present and Future -- Chapter 16. Upper Airway Imaging in Pediatric Obstructive Sleep Apnea -- Chapter 17. Laboratory Tests in Pediatric Sleep Medicine -- Chapter 18. The Nocturnal Polysomnogram – Approaches to Recording, Scoring and Interpretation in Infants and Children -- Chapter 19. Multiple Sleep Latency Test -- Chapter 20. Actigraphy -- Chapter 21. Defining Normal in Pediatric Sleep: Some Thoughts and Things to Think About -- Part V. Pharmacotherapy of Sleep Disorders in Children -- Chapter 22. Stimulants -- Chapter 23. Somnogenic Agents in Children -- Chapter 24. Drugs Which Affect Sleep -- Part VI. Acute and Chronic Ventilatory Support in Children -- Chapter 25. Non-Invasive Respiratory Support in Children With Sleep Disordered Breathing -- Part VII. Disorders of Sleep -- Chapter 26. Pediatric Insomnia: Etiology, Impact, Assessment and Treatment -- Chapter 27. Apnea of Infancy, Apparent Life-Threatening Events, and Sudden Unexplained Death in Infancy -- Chapter 28. Apnea of Prematurity -- Chapter 29. Disorders of Respiratory Control and Central Hypoventilation Syndromes -- Chapter 30. Disorders of Excessive Sleepiness -- Chapter 31. Restless Legs Syndrome and Periodic Leg Movements of Sleep -- Chapter 32. Circadian Sleep Disorders -- Chapter 33. Parasomnias -- Part VIII. Obstructive Sleep Apnea -- Chapter 34. Obstructive Sleep Apnea – Definition -- Chapter 35. Pathophysiology of Obstructive Sleep Apnea Syndrome in Childhood -- Chapter 36. Obstructive Sleep Apnea: Clinical Presentation and Differential Diagnosis.-Chapter 37. Surgical Treatment of Pediatric Obstructive Sleep Apnea -- Chapter 38. Obstructive Sleep Apnea - Treatment - Anti-Inflammatory Therapy -- Chapter 39. Pediatric Obstructive Sleep Apnea - Orthodontic Management -- Chapter 40. Myofunctional Approaches to Pediatric Sleep Medicine -- Chapter 41. Illustrative Clinical Cases -- Part IX. Sleep in Other Disorders -- Chapter 42. Sleep Disordered Breathing in Neuromuscular Diseases -- Chapter 43. Obstructive Sleep Apnea and Asthma -- Chapter 44. Cystic Fibrosis -- Chapter 45. Bronchopulmonary Dysplasia -- Chapter 46. Down Syndrome -- Chapter 47. Sleep in Obese Children and Adolescents -- Chapter 48. Sleep in Sickle Cell Disease -- Chapter 49. Epilepsy and Sleep, Common Bedfellows -- Chapter 50. Autism Spectrum Disorder -- Chapter 51. Sleep and Attention-Deficit/Hyperactivity Disorder -- Chapter 52. Sleep and Mood Disorder -- Chapter 53. Prader Willi Syndrome -- Chapter 54. Craniofacial Syndromes -- Chapter 55. Sleep Problems and Developmental Delay -- Chapter 56. Sleep in Children Following Brain Concussion -- Chapter 57. Diabetes -- Chapter 58. Cerebral Palsy -- Chapter 59. Sleep in Children With Myelomeningocele -- Chapter 60. Inborn Errors of Metabolism: Mucopolysaccharidoses and Others.

## Sommario/riassunto

This book provides comprehensive coverage of all aspects related to pediatric sleep and its associated disorders. It addresses the ontogeny and maturational aspects of physiological sleep and circadian rhythms, as well as the effects of sleep on the various organ systems as a function of development. Organized into nine sections, the book begins with a basic introduction to sleep, and proceeds into an extensive coverage of normative sleep and functional homeostasis. Part three then concisely examines the humoral and developmental aspects of sleep, namely the emerging role of metabolic tissue and the intestinal microbiota in regulation. Parts four, five, and six discuss diagnoses methods, techniques in sleep measurement, and specific aspects of pharmacotherapy and ventilator support for the pediatric patient. Various sleep disorders are explored in part seven, followed by an in-

depth analysis of obstructive sleep apnea in part eight. The book concludes with discussions on the presence of sleep issues in other disorders such as Down syndrome, obesity, cystic fibrosis, and asthma. Written by recognized leaders in the field, Pediatric Sleep Medicine facilitates an extensive learning experience for practicing physicians who encounter specific sleep-related issues in their practice.

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