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Nota di contenuto	Title and Frontmatter -- Preface -- Foreword -- Introduction -- Contents -- Contributors -- Otology and Neurotology -- 1. Anatomy of the Auditory and Vestibular Systems -- 2. Development of the Ear -- 3. Molecular Biology of Hearing and Balance -- 4. Physiology of the Auditory and Vestibular Systems -- 5. Inner Ear Drug Delivery and Gene Therapy -- 6. Hair Cell Regeneration -- 7. Cochlear Biophysics -- 8. Central Auditory Processing and Functional Neuroimaging -- 9. Diagnostic Audiology, Hearing Instruments and Aural Habilitation -- 10. Evaluation of the Vestibular System -- 11. Imaging of the Temporal Bone -- 12. Pathologic Correlates in Otology and Neurotology -- 13. Outcomes Research, Clinical Trials, and Clinical Research -- 14. Diseases of the External Ear -- 15. Eustachian Tube Dysfunction -- 16. Otitis Media and Middle-Ear Effusions -- 17. Chronic Otitis Media and Cholesteatoma -- 18. Cranial and Intracranial Complications of Acute and Chronic Otitis Media -- 19. Reconstruction of the Middle Ear -- 20. Otosclerosis -- 21. Trauma to the Middle Ear, Inner Ear and Temporal

Bone -- 22. Noise-Induced Hearing Loss -- 23. Ototoxicity -- 24. Idiopathic Sudden Sensorineural Hearing Loss -- 25. Perilymphatic Fistulae -- 26. Hereditary Hearing Impairment -- 27. Autoimmune Inner Ear Disease and Other Autoimmune Diseases with Inner Ear Involvement -- 28. Menière Disease, Vestibular Neuritis, Benign Paroxysmal Positional Vertigo, Superior Semicircular Canal Dehiscence, and Vestibular Migraine -- 29. Presbycusis and Presbyastasis -- 30. Vestibular and Balance Rehabilitation -- 31. Tinnitus and Decreased Sound Tolerance -- 32. Cochlear and Auditory Brainstem Implantation -- 33. Cochlear Implant Coding Strategies and Device Programming -- 34. Facial Paralysis -- 35. Vestibular Schwannomas and Other Skull Base Neoplasms. 36. Stereotactic Radiosurgery and Radiotherapy -- Rhinology -- 37. Embryology, Anatomy and Physiology of the Nose and Paranasal Sinuses -- 38. Olfaction and Gustation -- 39. Cellular Biology of the Immune System -- 40. Assessment of Nasal Function -- 41. Imaging of the Nasal Cavities, Paranasal Sinuses, Nasopharynx, Orbits, Infratemporal Fossa, Pterygomaxillary Fissure and Base of Skull -- 42. Etiology of Infectious Diseases of the Upper Respiratory Tract -- 43. Allergic Rhinitis -- 44. Epistaxis -- 45. Acute and Chronic Nasal Disorders -- 46. Acute Rhinosinusitis and Its Complications -- 47. Chronic Rhinosinusitis and Polyposis -- 48. Headache and Facial Pain -- 49. Primary Paranasal Sinus Surgery -- 50. Revision Paranasal Sinus Surgery and Surgery of the Frontal Sinus -- 51. Endoscopic Surgery of the Skull Base, Orbits and Benign Sinonasal Neoplasms -- Facial Plastic and Reconstructive Surgery -- 52. Otoplasty for the Prominent Ear -- 53. Rhinoplasty and Septoplasty -- 54. Nasal Reconstruction -- 55. Facial Fractures -- 56. Wound Healing and Flap Physiology -- 57. Scar Revision and Skin Resurfacing -- 58. Local Flaps in Facial Reconstruction -- 59. Regional Flaps and Free Tissue Transfer -- 60. Rejuvenation of the Upper Face and Midface -- 61. Rejuvenation of the Lower Face and Neck -- Pediatric Otorhinolaryngology -- 62. Microtia, Canal Atresia, and Middle Ear Anomalies -- 63. Anatomy and Physiology of the Oral Cavity -- 64. Diseases of the Oral Cavity, Oropharynx and Nasopharynx -- 65. Deep Head and Neck Space Infections -- 66. Sleep Apnea in Children -- 67. Robotic Surgery, Navigational Systems and Surgical Simulators -- 68. Airway Management in the Infant and Child -- 69. Congenital Anomalies of the Larynx -- 70. Congenital Anomalies of the Head and Neck -- 71. Biofilms and Their Role in Ear and Respiratory Infections. Laryngology and Bronchoesophagology -- 72. Development, Anatomy, and Physiology of the Larynx -- 73. Assessment of Vocal Function -- 74. Disorders of Speech and Language -- 75. Benign Laryngeal Lesions -- 76. Laryngopharyngeal Reflux and Laryngeal Infections and Manifestations of Systemic Diseases -- 77. Trauma to the Larynx -- 78. Airway Control and Laryngotracheal Stenosis in Adults -- 79. Neurogenic Disorders of the Larynx -- 80. Laryngeal Paralysis -- 81. Muscle Misuse Disorders of the Larynx -- 82. Imaging of the Larynx, Trachea and Esophagus -- 83. Laryngoscopy -- 84. Bronchology -- 85. Esophagology -- 86. Sleep Medicine and Surgery -- Head and Neck Surgery -- 87. Molecular Biology of Squamous Cell Carcinoma -- 88. Mechanisms of Immune Evasion of Head and Neck Cancer -- 89. Molecular Diagnostic Approaches to Head and Neck Cancer -- 90. Imaging of the Oral Cavity, Pharynx, Salivary Glands and Neck -- 91. Targeted Therapeutic Approaches to Head and Neck Cancer -- 92. Chemoradiation for Head and Neck Cancer -- 93. Immunotherapy for Head and Neck Cancer -- 94. Nutrition of the Patient with Head and Neck Cancer -- 95. Neoplasms of the Anterior Skull Base -- 96.

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## Sommario/riassunto

The first edition of Ballengers book was published in 1908 and has since been translated into 10 languages. The 18th edition continues the tradition of presenting a complex reference text of current knowledge in otorhinolaryngology for the 21st century. The 18th edition comprises 114 chapters organised into six sections, each edited by a leader in its discipline. The sections are topically arranged to address otology/neurotology, rhinology, facial plastic and reconstructive surgery, pediatric otorhinolaryngology, laryngology and bronchoesophagology, and head and neck surgery. The presentation of basic science underlying clinical otorhinolaryngology has been expanded and molecular mechanisms and genetics of disease are presented. Disorders of smell, taste, balance and hearing, voice, speech, and language are also emphasised to provide comprehensive coverage of the discipline. Blending state-of-the-art clinical techniques with coverage of scientific foundations, this book is designed to satisfy the informational needs of developing specialists and seasoned practitioners alike. New chapters include Allergy Evaluation, Immunotherapy, Medical Management of Chronic Sinusitis, Otoplasty, and Cleft Lip. New chapters in an expanded section on pediatric otorhinolaryngology include Congenital Anomalies of the Mandible and Maxilla; Drooling, Dysphagia, and Aspiration; Congenital Anomalies of the Nose and Nasal Airway, Congenital Anomalies of the Larynx and Trachea, Acquired Anomalies of the Larynx and Trachea, Aerodigestive Tract Foreign bodies and Caustic Ingestions; Speech and Resonance Disorders in Children; Voice Disorders in Children; and Vascular Tumors and Malformations of the Head and Neck. Senior authors were chosen not only for their original contributions, but also for their intellectual leadership of the speciality. basic science and clinical chapters stress the role of molecular biology in the pathogenesis of disease. Throughout, the genetic basis of disease has been emphasized. The book is a unique blend of state-of-the-art clinical techniques, methods and outcomes together with coverage of basic mechanisms and science. It provides students, residents, fellows and practitioners with the understanding necessary to participate fully in the use of molecular biology in therapy.

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