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Nota di contenuto	Physiopathology of Foetal Onset Hydrocephalus -- Iron and Hydrocephalus -- Cerebrospinal Fluid Biomarkers of Hydrocephalus -- Intracranial Pulsatility, Cerebrospinal Fluid Flow and Glymphatic Function in Idiopathic Normal Pressure Hydrocephalus -- Congenital Hydrocephalus -- Genetics of Hydrocephalus: Causal and Contributory Factors -- Anatomy and Physiology Based Magnetic Resonance Imaging in Hydrocephalus -- Post-Hemorrhagic Hydrocephalus -- Multiloculated Hydrocephalus: Diagnosis, Treatment, and Clinical Implications -- Hydrocephalus Secondary to Spina Bifida -- Hydrocephalus and Brain Tumors -- Idiopathic Normal Pressure Hydrocephalus -- Hydrocephalus following Aneurysmal Subarachnoid Hemorrhage -- Post-Traumatic Hydrocephalus -- Management of Intracranial Hypotension and Cerebrospinal Fluid Leaks -- Cerebrospinal Fluid Shunting -- Shunts and Shunt Malfunction -- Endoscopic Third Ventriculostomy with Choroid Plexus Cauterization (ETV-CPC) versus CSF Shunting -- Randomized Clinical Trials in Pediatric Hydrocephalus -- Global Perspectives on the Treatment of Hydrocephalus -- Technical Advances in the Treatment Hydrocephalus: Current and Future State.

Sommario/riassunto	This book is designed to provide the current state-of-the-field for CSF disorders that occur across the lifespan. The authors of the following chapters are true content experts and provide their accumulated knowledge, experience, and wisdom in addition to a thoughtful view forward. We begin with a discussion of the ventricles themselves, with changes in the ependyma that occurs throughout development and as the brain matures and then ages. Pathophysiological changes and their role in hydrocephalus of various etiologies are considered. Alterations in CSF composition, physiology, and flow are also discussed in the context of neurodevelopment and neurodegeneration.