Neuroimaging in Forensic Psychiatry: From the Clinic to the Courtroom

This book will be of great use to practicing forensic psychiatrists, forensic psychologists and forensic neurologists as they are increasingly likely to find themselves being asked to give professional opinions regarding the impact of neuroimaging findings on medicolegal questions such as competence, criminal responsibility, personal injury and disability.

This will be the first book dedicated to this important topic. Designed as a reference for forensic psychiatrists, it starts with a brief overview of the psychiatric applications of the primary neuroimaging techniques currently in most widespread use, positron emission tomography (PET), single-photon emission computed tomography (SPECT), and magnetic resonance imaging (MRI). Subsequent chapters explore the current and potential uses of neuroimaging in civil and criminal forensic contexts. Diagnostic categories addressed include traumatic brain injury, dementia, psychopathy, paraphilias, psychoses and mood disorders. Legal concepts such as admissibility, relevance, and standards of proof are reviewed as they relate to the possible uses of neuroimaging findings in legal proceedings; prior precedents and court decisions are also reviewed. Novel potential applications of neuroimaging, including detection of deception and identification of memory or recognition, are addressed in dedicated chapters.