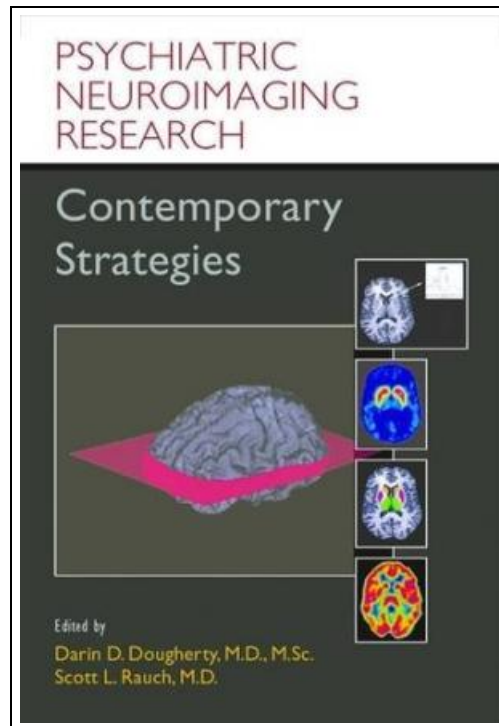


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PSYCHIATRIC NEUROIMAGING RESEARCH: CONTEMPORARY STRATEGIES



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American Psychiatric Publishing. Hardback. Book Condition: new. BRAND NEW, Psychiatric Neuroimaging Research: Contemporary Strategies, Darin D. Dougherty, Scott L. Rauch, The past decade has witnessed tremendous progress in psychiatric neuroimaging research. Investigators have developed, in tandem with significant advances in imaging technology, innovative strategies for exploiting the awesome potential of these new tools. This volume brings you up to date on the latest developments by providing insight into the methodology of experimental design of the numerous neuroimaging articles being published in today's peer-reviewed journals. Revealing the remarkable wealth of neuroimaging's potential contributions to psychiatry, 49 distinguished contributors use accounts of their own research to illustrate the power of particular paradigmatic techniques. These techniques hold promise not only for delineating pathophysiology and advancing neuroscience, but also for yielding discoveries of direct clinical significance, such as diagnostic testing, predictors of treatment response, and new medications. Focused specifically on applications in psychiatry, these chapters are uniquely organized around experimental paradigms rather than psychiatric disorders: * Using magnetic resonance imaging (MRI) to detect and characterize subtle, easily overlooked abnormalities in schizophrenia and schizotypal personality disorder.* Testing specific hypotheses regarding the functional integrity of implicated neural systems within the brain as part of cognitive activation studies of schizophrenia and obsessive-compulsive disorder (OCD).* Assessing the roles of the amygdala and striatum in anxiety disorders, including masked stimuli and other task manipulation methods to assay nonconscious brain activity. * Investigating the neural correlates of psychiatric symptoms in anxiety disorders, using script-driven imagery and in vivo exposure to experimentally manipulate study conditions.* Capturing the often elusive symptoms of hallucinations and psychomotor tics using innovative imaging techniques.* Using transcranial magnetic stimulation (TMS) to investigate how the brain regulates mood. Other fascinating topics include using positron emission tomography (PET) and single photon emission computed tomography (SPECT) to discern the therapeutic...



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