

Contents

A Chronicle About the Development of Electronic Structure Theories for Transition Metal Complexes	1
Tom Ziegler	
Orbital Models and Electronic Structure Theory	39
Jan Linderberg	
Sturmians and Generalized Sturmians in Quantum Theory	53
John Scales Avery and James Emil Avery	
Chemistry as a “Manifestation of Quantum Phenomena” and the Born–Oppenheimer Approximation?	101
Brian T. Sutcliffe	
From Ligand Field Theory to Molecular Collision Dynamics: A Common Thread of Angular Momentum	121
Anthony J. McCaffery	
A Modern First-Principles View on Ligand Field Theory Through the Eyes of Correlated Multireference Wavefunctions	149
Mihail Atanasov, Dmitry Ganyushin, Kantharuban Sivalingham, and Frank Neese	
The Phase Rule: Beyond Myopia to Understanding	221
R. Stephen Berry and Boris M. Smirnov	
Index	231

Molecular Electronic Structures of Transition Metal
Complexes II

Mingos, D.M.P.; Day, P.; Dahl, J.P. (Eds.)

2012, XVI, 236 p., Hardcover

ISBN: 978-3-642-27377-3