Simple Theorems, Proofs, and Derivations in Quantum Chemistry

## MATHEMATICAL AND COMPUTATIONAL CHEMISTRY

Series Editor: PAUL G. MEZEY

University of Saskatchewan Saskatoon, Saskatchewan

## **FUNDAMENTALS OF MOLECULAR SIMILARITY**

Edited by Ramon Carbó-Dorca, Xavier Gironés, and Paul G. Mezey

MANY-ELECTRON DENSITIES AND REDUCED DENSITY MATRICES

Edited by Jerzy Cioslowski

SIMPLE THEOREMS, PROOFS, AND DERIVATIONS IN QUANTUM CHEMISTRY István Mayer

A Continuation Order Plan is available for this series. A continuation order will bring delivery of each new volume immediately upon publication. Volumes are billed only upon actual shipment. For further information please contact the publisher.

## Simple Theorems, Proofs, and Derivations in Quantum Chemistry

## István Mayer

Chemical Research Center Hungarian Academy of Sciences Budapest, Hungary

Kluwer Academic/Plenum Publishers
New York • Boston • Dordrecht • London • Moscow

Mayer, István, 1943-

Simple theorems, proofs, and derivations in quantum chemistry/István Mayer.

p. cm. — (Mathematical and computational chemistry)

ISBN 0-306-47409-3

1. Quantum chemistry. I. Title. II. Series.

QD462 .M39 2002 541.2'8—dc21

2002027573

ISBN 0-306-47409-3

©2003 Kluwer Academic/Plenum Publishers, New York 233 Spring Street, New York, New York 10013

http://www.wkap.nl/

10 9 8 7 6 5 4 3 2 1

A C.I.P. record for this book is available from the Library of Congress

All rights reserved

No part of this book may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, microfilming, recording, or otherwise, without written permission from the Publisher, with the exception of any material supplied specifically for the purpose of being entered and executed on a computer system, for exclusive use by the purchaser of the work.

Printed in the United States of America

To my wife Márti; and to the memory of my mother and aunts, who saved me and raised me in difficult times.

