John Clarke Slater Encyclopedia Article

John Clarke Slater

The following sections of this BookRags Literature Study Guide is offprint from Gale's For Students Series: Presenting Analysis, Context, and Criticism on Commonly Studied Works: Introduction, Author Biography, Plot Summary, Characters, Themes, Style, Historical Context, Critical Overview, Criticism and Critical Essays, Media Adaptations, Topics for Further Study, Compare & Contrast, What Do I Read Next?, For Further Study, and Sources.

(c)1998-2002; (c)2002 by Gale. Gale is an imprint of The Gale Group, Inc., a division of Thomson Learning, Inc. Gale and Design and Thomson Learning are trademarks used herein under license.

The following sections, if they exist, are offprint from Beacham's Encyclopedia of Popular Fiction: "Social Concerns", "Thematic Overview", "Techniques", "Literary Precedents", "Key Questions", "Related Titles", "Adaptations", "Related Web Sites". (c)1994-2005, by Walton Beacham.

The following sections, if they exist, are offprint from Beacham's Guide to Literature for Young Adults: "About the Author", "Overview", "Setting", "Literary Qualities", "Social Sensitivity", "Topics for Discussion", "Ideas for Reports and Papers". (c)1994-2005, by Walton Beacham.

All other sections in this Literature Study Guide are owned and copyrighted by BookRags, Inc.

Contents

John Clarke Slater Encyclopedia Article.....1

Contents.....2

John Clarke Slater.....3

John Clarke Slater

1900-1976

American physicist who pioneered the development and application of quantum mechanics to atoms, molecules, and the solid state. Slater, Niels Bohr, and Hendrik Kramers collaborated on the idea that light consists of probability waves (1924). This became a central tenet of quantum mechanics. Slater determinants are well known, as is the Slater orbital—an extremely useful atomic orbit approximation. Slater was an outstanding teacher and administrator while at Harvard and Massachusetts Institute of Technology and published many influential physics textbooks.