

Routine Coal and Coke Analysis: Collection, Interpretation, and Use of Analytical Data

John T. Riley, Ph.D.



INTERNATIONAL
Standards Worldwide

ASTM International
100 Barr Harbor Drive
PO Box C700
West Conshohocken, PA 19428-2959

Printed in U.S.A.
ASTM Stock No. MNL57

Library of Congress Cataloging-in-Publication Data

Riley, John T. (John Thomas), 1942–

Manual 57 routine coal and coke analysis: collection, interpretation, and use of analytical data/John T. Riley.

p. cm.

ASTM stock number: MNL 57.

Includes bibliographical references and index.

ISBN 978-0-8031-4515-3

1. Coal . 2. Coke. I. Title.

TP325.R53 2007

662.622—dc22

2007026295

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Printed in City, State
Month Year

Foreword

THIS PUBLICATION, *Routine Coal and Coke Analysis: Collection, Interpretation, and Use of Analytical Data*, was sponsored by Committee D05 on Coal and Coke. This is Manual 57 in ASTM International's manual series.

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Acknowledgment

This manual was written as an outline of the more important aspects of the routine procedures used in the analysis of coal and coke. The author has a background in analytical and materials chemistry and personally finds the analysis of coal and coke very interesting and challenging. This manual is a collection of observations and notes gathered while working for nearly three decades in coal science. There were three different levels of involvement in the coal science work, (1) teaching undergraduate and graduate courses in analytical, coal, and materials chemistry, (2) conducting funded research in coal and fuel science, and (3) actively participating in standards development projects in ASTM International Committee D05 on Coal and Coke.

The university teaching and research endeavors were greatly influenced and enhanced by the ASTM International D05 activities. Projects with coal science problems needing relatively quick and method-adaptable solutions were readily identified through involvement with Committee D05. Generally, these projects could be supported by appropriate funding agencies available to most academic scientists. Work on the projects was always rewarding and quite often a challenging experience for students. Most of the time the students were able to see the results of their efforts in published professional journals. For some projects the final result was a published ASTM Standard Test Method, which was tremendously rewarding to both the students and professor.

The author is truly grateful for the many years of cooperation and support from the members of ASTM International Committee D05 on Coal and Coke. The contributions by the students working on coal science projects are gratefully acknowledged. This manual contains a significant amount of their work and was written for future students in coal science.

The author wishes to thank the Committee D05 members who reviewed the manual and made many very helpful suggestions. It is a much better manuscript because of their efforts. Finally, the very helpful suggestions and patience of the ASTM Books Staff is acknowledged.