



# Asphalt Materials Science and Technology

By James G. Speight

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Asphalt is a complex but popular civil engineering material. Design engineers must understand these complexities in order to optimize its use. Whether or not it is used to pave a busy highway, waterproof a rooftop or smooth out an airport runway, Asphalt Materials Science and Technology acquaints engineers with the issues and technologies surrounding the proper selection and uses of asphalts. With this book in hand, researchers and engineering will find a valuable guide to the production, use and environmental aspect of asphalt.

- Covers the Nomenclature and Terminology for Asphalt including: Performance Graded (PG) Binders, Asphalt Cement (AC), Asphalt-Rubber (A-R) Binder, Asphalt Emulsion and Cutback Asphalt
- Includes Material Selection Considerations, Testing, and applications
- Biodegradation of Asphalt and environmental aspects of asphalt use

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## **Editorial Review**

### Review

"a welcome addition to the chemical literature...Material engineers exploring the applications of asphalt will find value in this book. Chemists working in the petrochemical industry, analysts involved in the characterization of petrochemicals, and forensic scientists working in failure and compliance assessment will also find this text useful." --**MRS Bulletin, *Asphalt Materials Science and Technology***

### From the Back Cover

Select the proper asphalt composition which will not only meet the project requirements but also withstand the elements. **Asphalt Science and Technology** is a one-of-a-kind reference, offers an authoritative coverage of the chemistry, technology, and engineering of asphaltic products for highway construction.

Asphalt Science and Technology begins with a brief and readable discussion of Nomenclature and Terminology and Chemistry of Asphalt. This is quickly followed by self-contained chapters including: Material Selection Considerations and Asphalt testing Methods. Other important chapters which are included in the book Production Applications, Biodegradation of Asphalt and Environmental Aspects of Asphalt Use. With this book in hand, researchers and engineering will find a valuable guide to the production, use and environmental aspect of asphalt.

### About the Author

Dr. Speight is currently editor of the journal Petroleum Science and Technology (formerly Fuel Science and Technology International) and editor of the journal Energy

Sources. He is recognized as a world leader in the areas of fuels characterization and development. Dr. Speight is also Adjunct Professor of Chemical and Fuels Engineering at the University of Utah.

James Speight is also a Consultant, Author and Lecturer on energy and environmental issues. He has a B.Sc. degree in Chemistry and a Ph.D. in Organic Chemistry, both from University of Manchester. James has worked for various corporations and research facilities including Exxon, Alberta Research Council and the University of Manchester. With more than 45 years of experience, he has authored more than 400 publications--including over 50 books--reports and presentations, taught more than 70 courses, and is the Editor on many journals including the Founding Editor of Petroleum Science and Technology.

## **Users Review**

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#### **Jetta Butler:**

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**Jennifer Wetzel:**

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**Barbara Simon:**

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