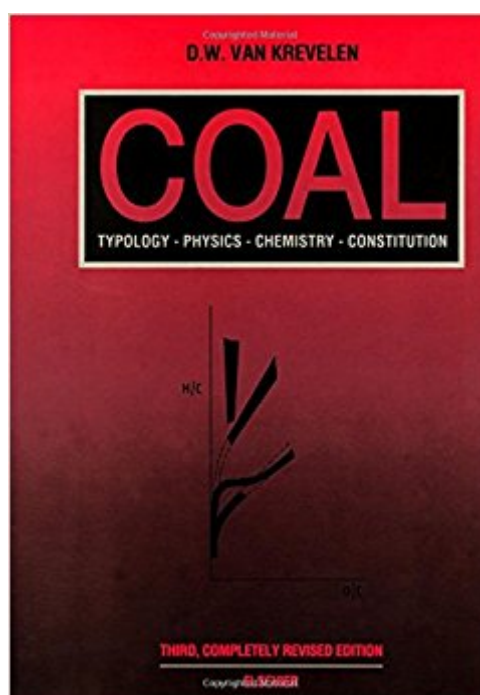


The book was found

Coal, Third Edition: Typology - Physics - Chemistry - Constitution (Coal Science & Technology)



Synopsis

The first edition of the book *Coal: Typology - Chemistry - Physics - Constitution* appeared in 1961. In 1981 a new edition was published in which the text was unaltered proving that after 20 years the book was still considered a standard work in its field. The enormous activities in the 80's in the field of coal conversion processes (especially gasification and liquefaction) and the equally amazing development of instrumental techniques of observation and analysis prompted a complete revision and update of the book. The present edition contains 1000 pages compared to the 514 pages of its predecessors of 1961 and 1981. The number of illustrations has greatly increased from 253 to 574 and that of the tables from 76 to 208. These figures amply testify to the increase in coal research. Compared with its former editions, the present book treats a considerable number of new subjects: modern concepts of geotectonics and of organic geochemistry; the problem of pseudohomogeneity of vitrinite; developments of the classification and systematics of coals and coal components (macerals); an exposé on electron microscopy and the most important instrumental physical methods of analysis (FTIR, NMR, ESCA and analytical pyrolysis combined with gas chromatography and mass spectroscopy); the principles of physical-statistical structure analysis based on the concept of additivity of a large number of molar functions; a revision of Seyler's ideas of discrete steps in coalification; an essay on coal fluorescence; and the survey on magnetic properties - magnetic susceptibility and magnetic resonance - is considerably enlarged. A completely new chapter is added on cohesion and adhesion phenomena as found in coals. The chapter on solvent extraction and solubilisation is significantly enlarged and new concepts are discussed. The actions of hydrogen, molecular oxygen and oxidising agents on coal are updated and a newly written chapter treats the grand processes of coal conversion (combustion, gasification, carbonisation and liquefaction). Coal constitution in its diverse aspects is revised with a practically complete survey of many proposed coal models. Essays on synthetic coal analogues and on the simulation of natural coalification are added. Also new is the compendium, a set of comprehensive tables, containing the most important numerical data of this book in a fully comparative form. Every chapter has its own bibliography, divided into general references (leading books on the treated subject) and special references, which are quotations of scientific papers discussed in the text. The extensive subject index, complete index of names and the compendium are provided in order to facilitate usage as an encyclopedic work.

Book Information

Series: Coal Science & Technology

Hardcover: 1002 pages

Publisher: Elsevier Science; 3 edition (November 17, 1993)

Language: English

ISBN-10: 0444895868

ISBN-13: 978-0444895868

Product Dimensions: 2 x 7 x 10 inches

Shipping Weight: 4.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,228,427 in Books (See Top 100 in Books) #46 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Coal](#) #1260 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum](#) #2776 in [Books > Science & Math > Chemistry > Organic](#)

Customer Reviews

...writing as a bibliophile with a far-too-large personal library - if I were to be restricted to owing a single book on coal, the choice would be a very simple one: 'van Krevelen'. Certainly this is a book that belongs in the library of every institution or organization conducting research on coal, and should be in the personal collections of individual researchers. Fuel Processing Technology...the substantial scope of the changes incorporated into this third edition thoroughly justifies the acquisition of this fine book. Coal will continue to be a crucial reference in coal science literature and should be required reading for anyone seeking to understand this complex carbonaceous material. Energy and Fuels If a library had to own only one book on coal, this should be it. Organic Geochemistry

[Download to continue reading...](#)

Coal, Third Edition: Typology - Physics - Chemistry - Constitution (Coal Science & Technology) Spectroscopic Analysis of Coal Liquids (Coal Science and Technology Vol 12) Third Eye: Third Eye Activation Mastery, Easy And Simple Guide To Activating Your Third Eye Within 24 Hours (Third Eye Awakening, Pineal Gland Activation, Opening the Third Eye) A Typology of Domestic Violence: Intimate Terrorism, Violent Resistance, and Situational Couple Violence (Northeastern Series on Gender, Crime, and Law) Theory and Typology of Proper Names (Trends in Linguistics. Studies and Monographs 168) CRC Handbook of Chemistry and Physics, 88th Edition (CRC Handbook of Chemistry & Physics) Prakriti: Your Ayurvedic Constitution (Your Ayurvedic Constitution Revised Enlarged Second Edition) Recent Advances in the Theory of Chemical and Physical Systems:

Proceedings of the 9th European Workshop on Quantum Systems in Chemistry and Physics ... in Theoretical Chemistry and Physics) The Chemistry and Technology of Coal, Second Edition, (Chemical Industries) The Constitution of the State of Montana (US Constitution) The Penguin Guide to the United States Constitution: A Fully Annotated Declaration of Independence, U.S. Constitution and Amendments, and Selections from The Federalist Papers A More Perfect Constitution: Why the Constitution Must Be Revised: Ideas to Inspire a New Generation Study Guide: Ace Organic Chemistry I - The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Ace General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Illustrating for Science: "A Problem-Solving Approach to Rendering Subjects in Biology, Chemistry, Physics , Astronomy, Space Technology, Medicine, Geology and Architecture" 7 Subject Science Portfolio - Minecraft & The Real World: Ages 10 to 17 - Biology, Chemistry, Geology, Meteorology, Physics, Technology and Zoology ... Thinking Tree - Research Guide) (Volume 1) An Introduction to Coal Technology, Second Edition (Energy Science & Engineering Series) The Buffalo Creek Disaster: How the Survivors of One of the Worst Disasters in Coal-Mining History Brought Suit Against the Coal Company- And Won Clean Coal/Dirty Air: or How the Clean Air Act Became a Multibillion-Dollar Bail-Out for High-Sulfur Coal Producers (Yale Fastback Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)