Current Topics in Occupational Epidemiology is an in-depth study of the contemporary issues and emerging themes in the field. Divided into nine sections the book discusses how traditional methods can be used to study new occupational diseases such as epidemiological studies of older workers, and aid understanding of the "older" topics including morbidity and mortality among coal workers. Trends in society have allowed occupational epidemiological methods to be expanded to cover issues such as the ageing workforce, return to work after illness, and the migration of workers. These issues as well as new data sources such as surveillance systems are discussed in topic specific chapters. Written by leading international experts in the field, Current Topics in Occupational Epidemiology provides a comprehensive look at the current areas of interest and will be essential reading for epidemiologists, statisticians, exposure assessment scientists, physicians, and policymakers.

Since its initial publication in 1982, CANCER EPIDEMIOLOGY AND PREVENTION has served as the premier reference work for students and professionals working to understand the causes and prevention of cancer in humans. Now revised for the first time in more than a decade, this fourth edition provides a comprehensive summary of the global patterns of cancer incidence and mortality, current understanding of the major causal determinants, and a rationale for preventive interventions. Special attention is paid to molecular epidemiologic approaches that address the wider role of genetic predisposition and gene-environment interactions in cancer etiology and pathogenesis. New and timely chapters on environmental and social-epidemiologic factors include:

- The role of social class disparities
- The role of obesity and physical inactivity
- The potential effects of electromagnetic fields and radiofrequency radiation
- The principles of cancer chemoprevention

For both seasoned professionals and newer generations of students and researchers, this fourth edition of CANCER EPIDEMIOLOGY AND PREVENTION remains the authority in the field - a work of distinction that every lab, library, student, professional, or researcher should have close at hand.

This thoroughly updated Fifth Edition is a comprehensive, practical guide to recognizing, preventing, and treating work-related and environmentally-induced injuries and diseases. Chapters by experts in medicine, industry, labor, government, safety, ergonomics, environmental health, and psychology address the full range of clinical and public health concerns. Numerous case studies, photographs, drawings, graphs, and tables help readers understand key concepts. This edition features new chapters on environmental health, including water pollution, hazardous waste, global environmental issues.
People are increasingly concerned about potential environmental health hazards and often ask their physicians questions such as: “Is the tap water safe to drink?” “Is it safe to live near power lines?” “Is there a risk of cancer from this chemical?” These questions are increasingly common as awareness of environmental health issues grows. This text aims to provide a comprehensive introduction to occupational epidemiology, covering topics such as:

- A comparison between nonexperimental research and experimental research
- Control measures used in epidemiological research
- Data sources
- Epidemiological study designs
- Validity problems and generalization
- Procedures for writing a study protocol
- Ethical aspects
- Specific problems encountered in the epidemiological study of cancer, coronary heart disease, chronic respiratory diseases, musculoskeletal disorders, and psychosocial problems
- An orientation of the interpretation of epidemiological studies and discussion of reasons for false negative and false positive results

Introduction to Occupational Epidemiology is an excellent book for researchers beginning epidemiological studies, students in occupational health fields, occupational health physicians, hygienists, sociologists, ergonomists, public health personnel, and decision makers in public and occupational health.

The Encyclopedia of Epidemiology presents state-of-the-art information from the field of epidemiology in a less technical and accessible style and format. With more than 600 entries, no single reference provides as comprehensive a resource in as focused and appropriate manner. The entries cover every major facet of epidemiology, from risk ratios to case-control studies to mediating and moderating variables, and much more. Relevant topics from related fields such as biostatistics and health economics are also included.
Unfortunately, physicians often lack the information and training related to environmental health risks needed to answer such questions. This book discusses six competency based learning objectives for all medical school students, discusses the relevance of environmental health to specific courses and clerkships, and demonstrates how to integrate environmental health into the curriculum through published case studies, some of which are included in one of the book’s three appendices.

Also included is a guide on where to obtain additional information for treatment, referral, and follow-up for diseases with possible environmental and/or occupational origins.

A comprehensive survey of the epidemiology of common environmental exposures, this volume covers diet, water, particulates in outdoor air, nitrogen dioxide, ozone, environmental tobacco smoke, radon in homes, electromagnetic fields, and lead. Design and analysis issues, risk assessment and meta-analysis, and future directions in environmental epidemiology are also discussed. All chapters provide a review of the relevant literature as well as an overview of important methodologic issues, particularly exposure assessment and statistical methods. Most of these exposures are widespread and low-level, and are thought to increase the risk of chronic diseases that have many causes. Even though the disease risks due to these exposures may be low, the public health burden may be significant because large numbers of people are exposed. Such exposures are inherently difficult to detect via observational epidemiology. This book clarifies the problems and suggests ways to move forward. It will be useful to students and practitioners of public health, environmental health, and epidemiology.

The new, completely revised, and updated edition of this classic text --sponsored by the International Epidemiological Association (IEA) and previously edited by John Last-- remains the definitive dictionary in epidemiology worldwide. In fact, with contributions from over 220 epidemiologists and other users of epidemiology from around the globe, it is more than a dictionary: it includes explanations and comments on both core epidemiologic terms and on other scientific terms relevant to all professionals in clinical medicine and public health, as well as to professionals in the other health, life, and social sciences. Anyone seeking clarity on epidemiologic and methodological definitions important to human health will find it here. On the eve of a field trip to a foreign land, a health scientist remarked that if he had to limit his professional library to one volume on epidemiology, this would be the book he would choose.

Hazardous agents are an ongoing concern in the modern workplace, with many examples of workers being severely affected by chemicals as a result of both acute and chronic exposure. Occupational Toxicology, 2nd Edition introduces the basics of toxicology that underpin the application of toxicological information to the workplace environment. This casebook is designed for use in courses on epidemiology or occupational epidemiology. The chapters are based on actual studies and are written by the principal investigators in the field. The book is divided into four parts: cohort studies, case-control and proportionate mortality studies, cross-sectional studies, and surveillance and screening studies. A brief introduction to each part describes the study design, and a statistical appendix is included so that students can readily find the tools needed to answer analytical questions in the text. Questions in each chapter deal with study design, data collection, analysis, and interpretation, and complete answers are provided at the end of the chapters. Data sets accompany many of the chapters, and most of the analytical questions can be answered with a pocket calculator. The studies presented in this lucid, well-organized text involve a broad range of disease outcomes, including spontaneous abortion, carpal tunnel syndrome, kidney dysfunction, cytogenetic changes, ischemic heart disease, dermatitis, chronic renal disease, and several types of cancer. The exposures of interest are equally diverse, including VDT use, repetitive hand-wrist motion, heavy metals, carbon monoxide, diesel exhaust, lead, vinyl chloride, pesticides, solvents, silica, and acid mists. These outcomes and exposures cover many of the current issues in occupational health.

'Global Occupational Health' is a comprehensive introductory textbook designed for the preparation of students for graduate study in occupational health and related fields. It is also useful for anyone involved in the study of work-related health issues, such as researchers, occupational health practitioners, and policy makers. The book provides a comprehensive overview of the field of occupational health, including the history, philosophy, and methodology of occupational health research. It covers the major occupational health problems associated with the workplace, such as musculoskeletal disorders, respiratory diseases, and cancer. The book also discusses the role of occupational health professionals in the prevention and control of work-related health problems.
Online Library Case Studies In Occupational Epidemiology

Countries around the world are engaged in health reform, which places great demands on health care providers and systems managers. From the managed care revolution in the United States to the rebuilding of health systems in postcommunist Russia, these reforms impact millions of health care workers, government officials, patients, and the public alike. The New Public Health will help students and practitioners understand factors affecting the reform process of health care organization and delivery. It links the classic public health issues such as environmental sanitation, health education, and epidemiology with the new issues of universal health care, economics, and management of health systems for the new century. Provides a comprehensive overview of public health from a global perspective Assesses health systems models of the United States, Russia, the United Kingdom, Germany, Canada, Scandinavian countries, and developing countries including China, Nigeria, and Colombia Analyzes critical issues of health economics, including forces associated with escalating costs and the strategies to control those costs Discusses strategies for dealing with the many ramifications of managed care Links medicine with the social sciences, technology, and health management issues as they evolve

This informative book is valuable to a broad spectrum of individuals active in the environmental and health sciences, including chemists, epidemiologists, and mathematics modelers, as well as those involved with measurement and effects of numerous kinds of drinking water contamination and both indoor and ambient air pollution. Environmental researchers involved with human exposure to toxic substances, regulators and administrators will also find this work of value. “Comprehensive and comprehensible, but also encouraging -- informed by the hope and belief that informed its creation.” -Cancer Amid sweeping advances in the science and treatment of cancer, the TEXTBOOK OF CANCER EPIDEMIOLOGY offers students and professionals a definitive, systematic resource for understanding the factors affecting all types of human cancer. This fully updated new edition offers an overview of epidemiology’s key concepts and methods as they relate to cancer (including the emerging potential of biomarkers) as well as site-specific chapters on individual cancers’ natural history, pathology, descriptive epidemiology, and etiology. Taken together, these chapters forge connections between established science and the ongoing evolution of this dynamic field. Crisply and concisely written by an assembly of internationally recognized researchers, the TEXTBOOK OF CANCER EPIDEMIOLOGY offers a superlative introduction to the subject’s consensuses and controversies for those embarking on their careers and a ready reference for seasoned professionals.

This 5th ed. is an update and expansion of the 1989 4th ed. This EPA manual provides health professionals with information on the health hazards of pesticides currently in use, and current consensus recommendations for management of poisonings and injuries caused by them. As with previous updates, this new ed. incorporates new pesticide products that are not necessarily widely known among health professionals. Contents: (1) General Information: Introduction; General Principles in the Management of Acute Pesticide Poisonings; Environmental and Occupational History; (2) Insecticides; (3) Herbicides; (4) Other Pesticides; (5) Index of Signs and Symptoms; Index of Pesticide Products. Charts and tables.

Teaching epidemiology requires skill and knowledge, combined with a clear teaching strategy and good pedagogic skills. The general advice is simple: if you are not an expert on a topic, try to enrich your background knowledge before you start teaching. The new edition of Teaching Epidemiology helps you to do this and, by providing world-expert teachers’ advice on how best to structure teaching, providing a unique insight into what has worked in their hands. This book will help you to tailor your own epidemiology teaching programme. The fourth edition of this established text has been fully revised and updated, drawing on new research findings and recently developed methods.
Online Library Case Studies In Occupational Epidemiology

Online Library Case Studies In Occupational Epidemiology including research technologies in genetic epidemiology and method development in relation to causal analysis. Analytical tools provide teachers in the field with the skills to guide students at both undergraduate and postgraduate levels. Each chapter in Teaching Epidemiology comprises key concepts in epidemiology, subject specific methodologies, and disease specific issues, to provide expert assistance in the teaching of a wide range of epidemiology courses.

The amount of hazardous waste in the United States has been estimated at 275 million metric tons in licensed sites alone. Is the health of Americans at risk from exposure to this toxic material? This volume, the first of several on environmental epidemiology, reviews the available evidence and makes recommendations for filling gaps in data and improving health assessments. The book explores: Whether researchers can infer health hazards from available data. The results of substantial state and federal programs on hazardous waste dangers. The book presents the results of studies of hazardous wastes in the air, water, soil, and food and examines the potential of biological markers in health risk assessment. The data and recommendations in this volume will be of immediate use to toxicologists, environmental health professionals, epidemiologists, and other biologists.

Occupational epidemiology has emerged as a distinct subdiscipline of epidemiology and occupational medicine, addressing fundamental public health and scientific questions relating to the specification of exposure-response relationships, assessment of the adequacy of occupational exposure guidelines, and extrapolation of hazardous effects to other settings. This book reviews the wide range of principles and methods used in epidemiologic studies of working populations. It describes the historical development of occupational epidemiology, the approaches to characterizing workplace exposures, and the methods for designing and implementing epidemiologic studies. The relative strengths and limitations of different study designs are emphasized. Also included are more advanced discussions of statistical analysis, the estimation of doses to biological targets, and applications of the data derived from occupational epidemiology studies to disease modeling and risk assessment. The volume will serve both as a textbook in epidemiology and occupational medicine courses and as a practical handbook for the design, implementation, and interpretation of research in this field.

This casebook is designed for use in courses on epidemiology or occupational epidemiology. The chapters are based on actual studies and are written by the principal investigators. They are divided into four parts: cohort studies, case-control and proportionate mortality studies, cross-sectional studies, and surveillance and screening studies. A brief introduction to each part describes the study design, and a statistical appendix is included so that students can easily find the tools needed to answer analytical questions in the text. Questions in each chapter deal with study design, data collection, analysis, and interpretation. Complete answers are provided at the end of each chapter. Data sets accompany many of the chapters, and most of the analytical questions can be answered with a pocket calculator. The studies presented in this lucid, well-organized text involve a broad range of disease outcomes, including spontaneous abortion, carpal tunnel syndrome, kidney dysfunction, cytogenetic changes, ischemic heart disease, dermatitis, chronic renal disease, and several types of cancer. The exposures of interest are equally diverse, including VDT use, repetitive hand-wrist motion, heavy metals, carbon monoxide, diesel exhaust, lead, vinyl chloride, pesticides, solvents, silica, and acid mists. These outcomes and exposures cover many of the current topics of interest in occupational health.

Introduction to Occupational Health in Public Health Practice Bernard J. Healey and Kenneth T. Walker Introduction to Occupational Health in Public Health Practice Introduction to Occupational Health in Public Health Practice uses concepts of prevention, epidemiology, toxicology, disparities, preparedness, disease management, and health promotion to explain the underlying causes of occupational illness and injury and to provide a methodology to develop cost-effective programs that prevent injury and keep workers safe. Students, health educators, employers, and other health care professionals will find that this essential resource provides them with the necessary skills to develop, implement, and evaluate occupational health programs and forge important links between occupational health and public health.
Introduction to Occupational Health in Public Health Practice

"Successful evidence-based health promotion and disease prevention efforts recognize that health choices and outcomes of individuals and communities are profoundly affected by their respective social and physical environments. This book is a great tool to identify opportunities and strategies to integrate and leverage efforts for the individual, family, workplace, and broader community."

—Robert S. Zimmerman, MPH, president of Public Health Matters LLC, former Secretary of Health, Pennsylvania

"A timely and crucial book for all health care professionals."

—Mahmoud H. Fahmy, PhD, Professor of Education, Emeritus, Wilkes University

Epidemiology has often been defined as the study of the distribution of disease, together with the distribution of factors that may modify that risk of disease. As such, epidemiology has often been reduced to a methodology only, providing a mechanism for the study of disease that is somehow removed, separate and apart from the populations that serve as its focus. Epidemiology, however, is much more than that. The discipline provides a way of perceiving and knowing the world, and of relating to the communities whose health and disease patterns we are trying to understand. As such, its usefulness extends past the construction of questionnaires, the detective work inherent in tracing the source of an infection or the analysis of data. Rather, epidemiology serves as a point of reference and a linkage between various domains of reality: in the courtroom, between a community's injuries and those alleged to be responsible for those violations; between the community striving to effectuate changes to improve its health and environment and the lawmakers and policymakers whose actions may dictate or control the likelihood of that change; and between "mainstream" populations and those who become or remain marginalized and stigmatized due to disease or perceived disease.

From reviews of the first edition:

"An up-to-date presentation of research methods in occupational epidemiology is provided by this well-written and well-structured textbook. This excellent book is likely to become a standard reference text. All those engaged in occupational epidemiology should obtain a copy."

—International Journal of Epidemiology

"A remarkably well-written, easy-to-read, concise synopsis of the whole range of methods used in occupational epidemiology. Many examples, tables, diagrams, with comprehensive summaries of statistical concepts and various methods used to model exposure and dose. A valuable reference for basic and intermediate work."

—APHA Occupational Health and Safety Newsletter

"This book is a worthwhile introductory text to the emerging field of occupational epidemiology. It gives an extensive discussion of the practical problems to be faced in planning and executing occupational studies, and will be of particular benefit to persons starting work in this field of study."

—Chronic Diseases

This widely used text provides a clear and critical summary of research approaches to the epidemiological study of workplace hazards. It describes the historical development of occupational epidemiology, methods for characterizing occupational exposures, and techniques for designing and implementing epidemiologic studies in this area. The relative strengths and limitations of various study designs for investigating specific health outcomes are emphasized. Also included are more advanced discussions of statistical analysis, exposure and dose modeling, and subsequent applications of data derived from epidemiologic research, as in meta-analysis, pooled analysis, and statistical analysis, exposure and dose modeling, and risk assessment. Since the first edition was published 15 years ago, there have been numerous advances in epidemiologic methods to accommodate a broadened scope of investigations of occupational exposures and associated adverse health outcomes. Thus, in this Second Edition the authors have updated their discussions of methodology to include such topics as case-cohort and case-crossover designs and statistical analysis of repeated measures data, and have expanded the examples they use throughout the book to demonstrate the applications of these methods to a wide range of acute and chronic health outcomes. They have also added a new chapter on occupational health surveillance. Their text is unique for its strong emphasis on the definition and assessment of exposures, the application of quantitative exposure data to epidemiologic models, and the recognition that improvements in workplace risk identification and quantification will come from careful integration of these approaches.

A sound statistical account of the principles and methods for the design and analysis of observational...
Online Library Case Studies In Occupational Epidemiology

studies. Readers are assumed to have a working knowledge of basic probability and statistics, but
otherwise the account is reasonably self-contained. Throughout there are extended discussions of
actual observational studies to illustrate the ideas discussed, drawn from topics as diverse as smoking
and lung cancer, lead in children, nuclear weapons testing, and placement programs for students. As
result, many researchers will find this an invaluable companion in their work.

This Companion Textbook supplements the ActivEpi CD-ROM, sold separately. The ActivEpi CD-ROM
provides a multimedia presentation of concepts, commonly taught in an introductory epidemiology
course. ActivEpi mixes a full array of media to motivate, explain, visualize and apply epidemiological
concepts. Virtually all of the material on the ActivEpi CD-ROM is included in the Companion
Textbook. Because individuals differ in their learning skills, the ActivEpi CD-ROM and the ActivEpi
Companion Textbook offer readers different but related options on how to learn epidemiology. The
Textbook can be used as a hardcopy reference of the textual materials contained on the CD-ROM, as a
resource for the practice exercises, as a general reference, or even a self-contained textbook. ActivEpi
includes 15 lessons and over 50 hours of content via more than 250 launchable activities and
homework exercises. It can be used in a variety of teaching formats: distance learning, self-paced
learning, on-campus courses, and short courses. For the latest additions to ActivEpi, visit David
Kleinbaum's website.

Toxicology --

The objective of this second edition of Occupational Epidemiology is to update and extend the first
dition. It includes a basic introduction to epidemiology in the occupational context and introduces
new analytic methods. This volume-packed with mostly new material-emphasizes the relation
between occupation and a variety of illnesses. These chapters extensively cover the current
epidemiologic literature on occupation and provide a valuable basic reference. This interesting work
also includes case studies in occupational epidemiology. It discusses the evaluation of individual
studies and the integration of information from several studies. Students as well as professionals who
wish to integrate an understanding of epidemiology into their professional practice will find this
book to be an indispensable resource tool.

In the nearly three years since the publication of the ActivEpi companion text, the authors received
several suggestions to produce an abbreviated version that narrows the discussion to the most
"essential" principals and methods. A Pocket Guide to Epidemiology contains less than half as many
pages as the ActivEpi Companion Text and is a stand-alone introductory text on the basic principals
and concepts of epidemiology.

PROPOSAL DESCRIPTION: Now in its updated Fourth Edition, this classic text provides comprehensive
coverage of all aspects of occupational and environmental medicine. The book offers accurate,
current information on the history, causes, prevention, and treatment of a wide range of
environmental and occupational diseases and includes numerous case studies. This edition includes
more information on gene-environment interactions. The section on air pollution has been
completely reorganized. Other Fourth Edition highlights include expanded coverage of government
responses to the field and a new chapter on children's environmental health. Now in its updated
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The section on air pollution has been completely reorganized. Other Fourth Edition highlights
include expanded coverage of government responses to the field and a new chapter on children's
environmental health.
implementing surveillance and investigation of disease and disease outbreaks. Exploring contributing factors to the dynamics of disease transmission and the identification of population risks, it also includes a discussion of ethics in epidemiology and demography including important issues of privacy vs. public safety. With a chapter on H1N1 and Bird flu, this book will be important for students and professionals in public health and epidemiology. Focuses on the techniques of surveillance and investigation of disease Includes biostatistics and analysis techniques Explores the ethics of disease studies Includes chapter discussing H1N1 and Bird Flu