

## Engineering Physics By Dattu R Joshi Macamp

Antibiotic Resistance: Mechanisms and New Antimicrobial Approaches discusses up-to-date knowledge in mechanisms of antibiotic resistance and all recent advances in fighting microbial resistance such as the applications of nanotechnology, plant products, bacteriophages, marine products, algae, insect-derived products, and other alternative methods that can be applied to fight bacterial infections. Understanding fundamental mechanisms of antibiotic resistance is a key step in the discovery of effective methods to cope with resistance. This book also discusses methods used to fight antibiotic-resistant infection based on a deep understanding of the mechanisms involved in the development of the resistance. Discusses methods used to fight antibiotic-resistant infection based on a deep understanding of mechanisms involved in the development of the resistance Provides information on modern methods used to fight antibiotic resistance Covers a wide range of alternative methods to fight bacterial resistance, offering the most complete information available Discusses both newly emerging trends and traditionally applied methods to fight antibiotic resistant infections in light of recent scientific developments Offers the most up-to-date information in fighting antibiotic resistance Includes involvement of contributors all across the world, presenting questions of interest to readers of both developed and developing countries Biological pesticides are increasingly finding their place in IPM and increasing numbers

of products are making their way to the marketplace. Particularly in China, Latin America and Australia, implementation is proceeding on a large scale. However, in the USA and Europe, registration procedures for insect pathogens to be used for insect control have been established that require low levels of risk, resulting in costs of retarding the implementation of microbial agents. This book provides a review of the state of the art of studies on the environmental impact of microbial insecticides. It originates from a Society for Invertebrate Pathology Microbial Control Division Symposium .. "Assessment of environmental safety of biological insecticides", organised in collaboration with the EU-ERBIC research project (FAIR5-CT97-3489). This symposium was initiated by Heikki Hokkanen and Chris Lomer, and was held at the SIP Annual Meeting in 2001 in The Netherlands. The emphasis in this book is on large scale use of microbial agents for insect control, demonstrating how this use has been proceeding with minimal environmental impact. This book is intended to be of use to regulatory authorities in determining whether further studies in certain areas are necessary and how to conduct them if needed, or whether sufficient information has been collected already to permit full registration of many of these biological control agents.

Towards Smart World: Homes to Cities Using Internet of Things provides an overview of basic concepts from the rising of machines and communication to IoT for making cities smart, real-time applications domains, related technologies, and their possible

solutions for handling relevant challenges. This book highlights the utilization of IoT for making cities smart and its underlying technologies in real-time application areas such as emergency departments, intelligent traffic systems, indoor and outdoor securities, automotive industries, environmental monitoring, business entrepreneurship, facial recognition, and motion-based object detection. Features The book covers the challenging issues related to sensors, detection, and tracking of moving objects, and solutions to handle relevant challenges. It contains the most recent research analysis in the domain of communications, signal processing, and computing sciences for facilitating smart homes, buildings, environmental conditions, and cities. It presents the readers with practical approaches and future direction for using IoT in smart cities and discusses how it deals with human dynamics, the ecosystem, and social objects and their relation. It describes the latest technological advances in IoT and visual surveillance with their implementations. This book is an ideal resource for IT professionals, researchers, undergraduate or postgraduate students, practitioners, and technology developers who are interested in gaining deeper knowledge and implementing IoT for smart cities, real-time applications areas, and technologies, and a possible set of solutions to handle relevant challenges. Dr. Lavanya Sharma is an Assistant Professor in the Amity Institute of Information Technology at Amity University UP, Noida, India. She has been a recipient of several prestigious awards during her academic career. She is an active nationally recognized researcher who has published

numerous papers in her field.

B.Sc. Practical Physics

Focuses on the first control systems course of BTech, JNTU, this book helps the student prepare for further studies in modern control system design. It offers a profusion of examples on various aspects of study.

? A major reason complex programs are so difficult to evaluate is that the assumptions that inspire them are poorly articulated. Stakeholders of such programs are often unclear about how the change process will unfold. Thus, it is so difficult to reasonably anticipate the early and midterm changes that need to happen in order for a longer-term goal to be reached. The lack of clarity about the “mini-steps” that must be taken to reach a long-term outcome not only makes the task of evaluating a complex initiative challenging, but reduces the likelihood that all of the important factors related to the long term goal will be addressed. Most of the resources that have attempted to address this dilemma have been popularized as theory of change or sometimes program theory approaches. Although these approaches emphasize and elaborate the sequence of changes/mini steps that lead to the long-term goal of interest and the connections between program activities and outcomes that occur at each step of the way, they do not do enough to clarify how program managers or evaluators should deal with assumptions. Assumptions, the glue that holds all the pieces together, remain abstract and far from applicable. In this book the author tackles this important assumptions

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theme head-on-covering a breadth of ground from the epistemology of development assumptions, to the art of making logical assumptions as well as recognizing, explicit zing and testing assumptions with in an elaborate program theory from program design, implementation, monitoring and evaluation.

The eighteenth edition of this well-known textbook continues to provide a thorough understanding of the principles of modern physics. It offers a detailed presentation of important topics such as atomic physics, quantum mechanics, nuclear physics, solid state physics and electronics. The concepts are exhaustively presented with numerous examples and diagrams which would help the students in analysing and retaining the concepts in an effective manner. This textbook is a useful resource for undergraduate students and will also serve as a reference text for postgraduate students.

This book on Mathematics -I deals with fundamentals of subject area. Each topic in the book is explained from the examination point of view, wherein the theory is presented in an easy-tounderstand studentfriendly style. The solutions of examples are set following a 'tutorial' approach, which will make it easy for students from any background to easily grasp the concepts. Salient Features: - Complete coverage of course on Engineering Graphics - Complete coverage of course on Mathematics I - Each section concludes with an exercise to test the understanding of topics - Rich pool of pedagogy - Hints to exercise problems

"Biophysical Chemistry is an outstanding book that delivers both fundamental and

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complex biophysical principles, along with an excellent overview of the current biophysical research areas, in a manner that makes it accessible for mathematically and non-mathematically inclined readers." (Journal of Chemical Biology, February 2009) This text presents physical chemistry through the use of biological and biochemical topics, examples and applications to biochemistry. It lays out the necessary calculus in a step by step fashion for students who are less mathematically inclined, leading them through fundamental concepts, such as a quantum mechanical description of the hydrogen atom rather than simply stating outcomes. Techniques are presented with an emphasis on learning by analyzing real data. Presents physical chemistry through the use of biological and biochemical topics, examples and applications to biochemistry Lays out the necessary calculus in a step by step fashion for students who are less mathematically inclined Presents techniques with an emphasis on learning by analyzing real data Features qualitative and quantitative problems at the end of each chapter All art available for download online and on CD-ROM

This is a revised edition emphasising the fundamental concepts and applications of strength of materials while intending to develop students' analytical and problem-solving skills. 60% of the 1100 problems are new to this edition, providing plenty of material for self-study. New treatments are given to stresses in beams, plane stresses and energy methods. There is also a review chapter on centroids and moments of

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inertia in plane areas; explanations of analysis processes, including more motivation, within the worked examples.

The focus of this interdisciplinary volume is on four areas of nanoparticle research: characterization, manipulation, and potential effects on humanity and the environment. The book includes a comprehensive collection of data on industrial nanoparticle creation and the characterization of the nanoscale products of these processes. The authors describe the effects of these nanoscale structures on human health and discuss prospective implementations for detection and characterization of nanoparticles in the environment. They recommend, utilizing the most up-to-date understanding of nanotechnology, methods for limiting the negative effects of these products on the environment and human health through manipulation, sorting, and filtration.

James Stewart's *CALCULUS: EARLY TRANSCENDENTALS* texts are widely renowned for their mathematical precision and accuracy, clarity of exposition, and outstanding examples and problem sets. Millions of students worldwide have explored calculus through Stewart's trademark style, while instructors have turned to his approach time and time again. In the Eighth Edition of *CALCULUS: EARLY TRANSCENDENTALS*, Stewart continues to set the standard for the course while adding carefully revised content. The patient explanations, superb exercises, focus on problem solving, and carefully graded problem sets that have made Stewart's texts best-sellers continue to provide a strong foundation for the Eighth Edition. From the most

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unprepared student to the most mathematically gifted, Stewart's writing and presentation serve to enhance understanding and build confidence. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This comprehensive, best-selling reference provides the fundamental information you'll need to understand both the operation and proper application of all types of gas turbines. The full spectrum of hardware, as well as typical application scenarios are fully explored, along with operating parameters, controls, inlet treatments, inspection, troubleshooting, and more. The second edition adds a new chapter on gas turbine noise control, as well as an expanded section on use of inlet cooling for power augmentation and NO<sub>x</sub> control. The author has provided many helpful tips that will enable diagnosis of problems in their early stages and analysis of failures to prevent their recurrence. Also treated are the effects of the external environment on gas turbine operation and life, as well as the impact of the gas turbine on its surrounding environment.

Foundations of Engineering Acoustics takes the reader on a journey from a qualitative introduction to the physical nature of sound, explained in terms of common experience, to mathematical models and analytical results which underlie the techniques applied by the engineering industry to improve the acoustic performance of their products. The book is distinguished by extensive descriptions and explanations of audio-frequency

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acoustic phenomena and their relevance to engineering, supported by a wealth of diagrams, and by a guide for teachers of tried and tested class demonstrations and laboratory-based experiments. Foundations of Engineering Acoustics is a textbook suitable for both senior undergraduate and postgraduate courses in mechanical, aerospace, marine, and possibly electrical and civil engineering schools at universities. It will be a valuable reference for academic teachers and researchers and will also assist Industrial Acoustic Group staff and Consultants. Comprehensive and up-to-date: broad coverage, many illustrations, questions, elaborated answers, references and a bibliography Introductory chapter on the importance of sound in technology and the role of the engineering acoustician Deals with the fundamental concepts, principles, theories and forms of mathematical representation, rather than methodology Frequent reference to practical applications and contemporary technology Emphasizes qualitative, physical introductions to each principal as an entrée to mathematical analysis for the less theoretically oriented readers and courses Provides a 'cook book' of demonstrations and laboratory-based experiments for teachers Useful for discussing acoustical problems with non-expert clients/managers because the descriptive sections are couched in largely non-technical language and any jargon is explained Draws on the vast pedagogic experience of the writer

This book on Engineering Physics is designed for the first year engineering students of Gujarat Technological University (GTU). The perfect blend of basics as well as

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advanced topics like Modern Physics, Nano physics etc., in combination with rich pedagogy, will help the student gain good conceptual knowledge.

James Stewart's CALCULUS texts are widely renowned for their mathematical precision and accuracy, clarity of exposition, and outstanding examples and problem sets. Millions of students worldwide have explored calculus through Stewart's trademark style, while instructors have turned to his approach time and time again. In the Seventh Edition of CALCULUS, Stewart continues to set the standard for the course while adding carefully revised content. The patient explanations, superb exercises, focus on problem solving, and carefully graded problem sets that have made Stewart's texts best-sellers continue to provide a strong foundation for the Seventh Edition. From the most unprepared student to the most mathematically gifted, Stewart's writing and presentation serve to enhance understanding and build confidence. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A practical, money-saving guide to home electrical wiring Handle residential wiring projects correctly, safely, and according to the National Electrical Code (NEC). Filled with clear photos and helpful diagrams, The Homeowner's DIY Guide to Electrical Wiring shows you how to quickly and easily navigate the portions of the NEC that pertain to residential installations. This hands-on resource covers basic electronics and explains how electrical service progresses through your home. It describes how to

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install and test electrical systems and lighting, repair appliances and TVs, and upgrade to the latest innovations such as home networking, home automation, and alternate power systems. You'll learn the procedures used by professional electricians to create the kind of quality work that will pass inspection and add value to your home. The Homeowner's DIY Guide to Electrical Wiring shows how to: Protect against fire and shock hazards Track electrical service from the point of connection to the entrance panel Follow NEC requirements for residential projects Work with test equipment and installation tools Use the best techniques for quality electrical work Design and install indoor and outdoor lighting Maintain and repair electrically powered appliances Fix CRT, plasma, and LCD TVs Design a data and communications network and install coax, USB, and Ethernet cabling Install a home automation system Install backup and alternate power systems Work with smart meters

This book covers diverse areas in which nanoscience and nanotechnology have led to significant technological advances and practical applications, with special emphasis on novel types of nanomaterials and their applicability into a new generation of nano- and micro-devices. Different nanomaterials are reviewed with a focus on several practical application areas and their commercial utilization. Production technologies of nanomaterials are presented as one of the challenges today. Sectors where nanotechnology has already significantly contributed are presented, along with specific nanotechnology solutions: energy related sectors, NEMS/MEMS, micro power

generators, spintronics and healthcare. The basic properties and applications of nanostructured thermoelectric materials, ferroelectric and piezoelectric nanomaterials are reviewed. Examples of several developed thin-film thermogenerators are shown. A review of existing solutions and developing challenges are given regarding sustainable energy production, photovoltaics, solar cells, hydrogen economy and improved classes of batteries as contributions to green products and circular economy. Novel, highly promising areas in nanotechnology, are shown, such as voltage-driven nano-spintronics. Recent advances in friction characterisation at the nano level are described. Several proven nanomaterials have been reviewed pertaining to biomedicine. The use of nanomaterials in ophthalmology and cosmetic industry are reviewed, and the potential for silver nanoparticles and iron-based nanomaterials in biomedicine, also with recognised challenges and possible threats of non-controlled use of nanomaterials. This work is the result of joint efforts of different companies, academic, and research institutions participating in WIMB Tempus project, 543898-TEMPUS-1-2013-1-ES-TEMPUS-JPHES, "Development of Sustainable Interrelations between Education, Research and Innovation at WBC Universities in Nanotechnologies and Advanced Materials where Innovation Means Business", co-funded by the Tempus Programme of the European Union.

This treatise is concerned with the stresses and deformation of solid bodies in contact with each other, along curved surfaces which touch initially at a point or along a line.

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Examples are a railway wheel and rail, or a pair of gear wheel teeth. Professor Johnson first reviews the development of the theory of contact stresses since the problem was originally addressed by H. Hertz in 1882. Next he discusses the influence of friction and the topographical roughness of surfaces, and this is incorporated into the theory of contact mechanics. An important feature is the treatment of bodies which deform plastically or viscoelastically. In addition to stationary contact, an appreciable section of the book is concerned with bodies which are in sliding or rolling contact, or which collide.

Learn the hand-crafted notes on C programming Key Features Strengthens the foundations, as a detailed explanation of programming language concepts are given Lucid explanation of the concept Well thought-out, fully working programming examples End-of-chapter exercises that would help you practice the skills learned in the chapter Hand-crafted "KanNotes" at the end of the each chapter that would help the reader remember and revise the concepts covered in the chapter Focuses on how to think logically to solve a problem Description The new edition of this classic book has been thoroughly revamped, but remains faithful to the principles that have established it as a favourite amongst students, teachers and software professionals round the world. "Simplicity"- that has been the hallmark of this book in not only its previous sixteen English editions, but also in the Hindi, Gujrati, Japanese, Korean, Chinese and US editions. This book doesn't assume any programming background. It begins with the

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basics and steadily builds the pace so that the reader finds it easy to handle advanced topics towards the end of the book. What will you learn C Instructions Decision Control Instruction, Loop Control Instruction, Case Control Instruction Functions, Pointers, Recursion Data Types, The C Preprocessor Arrays, Strings Structures, Console Input/Output, File Input/Output Who this book is for Students, Programmers, researchers, and software developers who wish to learn the basics of C++ programming language.

Table of Contents

1. Getting Started
2. C Instructions
3. Decision Control Instruction
4. More Complex Decision Making
5. Loop Control Instruction
6. More Complex Repetitions
7. Case Control Instruction
8. Functions
9. Pointers
10. Recursion
11. Data Types Revisited
12. The C Preprocessor
13. Arrays
14. Multidimensional Arrays
15. Strings
16. Handling Multiple Strings
17. Structures
18. Console Input/Output
19. File Input/Output
20. More Issues In Input/Output
21. Operations On Bits
22. Miscellaneous Features
23. Interview FAQs

Appendix A- Compilation and Execution Appendix B- Precedence Table Appendix C- Chasing the Bugs Appendix D- ASCII Chart Periodic Tests I to IV, Course Tests I, II Index About the Authors Through his books and Quest Video Courses on C, C++, Java, Python, Data Structures, .NET, IoT, etc. Yashavant Kanetkar has created, molded and groomed lacs of IT careers in the last three decades. Yashavant's books and Quest videos have made a significant contribution in creating top-notch IT manpower in India and abroad. Yashavant's books are globally recognized and millions of students/professionals have

benefitted from them. Yashavant's books have been translated into Hindi, Gujarati, Japanese, Korean and Chinese languages. Many of his books are published in India, USA, Japan, Singapore, Korea and China. Yashavant is a much sought after speaker in the IT field and has conducted seminars/workshops at TedEx, IITs, IIITs, NITs and global software companies. Yashavant has been honored with the prestigious "Distinguished Alumnus Award" by IIT Kanpur for his entrepreneurial, professional and academic excellence. This award was given to top 50 alumni of IIT Kanpur who have made a significant contribution towards their profession and betterment of society in the last 50 years. His Linkedin profile: [linkedin.com/in/yashavant-kanetkar-9775255](https://www.linkedin.com/in/yashavant-kanetkar-9775255)

The three-volume set CCIS 1224, CCIS 1225, and CCIS 1226 contains the extended abstracts of the posters presented during the 21st International Conference on Human-Computer Interaction, HCII 2020, which took place in Copenhagen, Denmark, in July 2020.\* HCII 2020 received a total of 6326 submissions, of which 1439 papers and 238 posters were accepted for publication in the pre-conference proceedings after a careful reviewing process. The 238 papers presented in these three volumes are organized in topical sections as follows: Part I: design and evaluation methods and tools; user characteristics, requirements and preferences; multimodal and natural interaction; recognizing human psychological states; user experience studies; human perception and cognition. -AI in HCI. Part II: virtual, augmented and mixed reality; virtual humans and motion modelling and tracking; learning technology. Part III: universal access,

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accessibility and design for the elderly; smartphones, social media and human behavior; interacting with cultural heritage; human-vehicle interaction; transport, safety and crisis management; security, privacy and trust; product and service design. \*The conference was held virtually due to the COVID-19 pandemic. The chapter "“Developing an Interactive Tabletop Mediated Activity to Induce Collaboration by Implementing Design Considerations Based on Cooperative Learning Principles” is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com).

Biophysics is the science of physical principles underlying all processes of life, including the dynamics and kinetics of biological systems. This fully revised 2nd English edition is an introductory text that spans all steps of biological organization, from the molecular, to the organism level, as well as influences of environmental factors. In response to the enormous progress recently made, especially in theoretical and molecular biophysics, the author has updated the text, integrating new results and developments concerning protein folding and dynamics, molecular aspects of membrane assembly and transport, noise-enhanced processes, and photo-biophysics. The advances made in theoretical biology in the last decade call for a fully new conception of the corresponding sections. Thus, the book provides the background needed for fundamental training in biophysics and, in addition, offers a great deal of advanced biophysical knowledge.

Engineering Physics is designed as a textbook for first year undergraduate engineering

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students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures.

ENGINEERING PHYSICS - GTU 2010Tata McGraw-Hill Education

Featuring in-depth discussions on tensile and compressive properties, shear properties, strength, hardness, environmental effects, and creep crack growth, "Mechanical Properties of Engineered Materials" considers computation of principal stresses and strains, mechanical testing, plasticity in ceramics, metals, intermetallics, and polymers, materials selection for thermal shock resistance, the analysis of failure mechanisms such as fatigue, fracture, and creep, and fatigue life prediction. It is a top-shelf reference for professionals and students in materials, chemical, mechanical, corrosion, industrial, civil, and maintenance engineering; and surface chemistry.

The Book Has Been Designed To Cover All Relevant Topics In B.E.

(Mechanical/Metallurgy / Material Science / Production Engineering), M.Sc. (Material Science), B.Sc. (Honours), M.Sc. (Physics), M.Sc. (Chemistry), Amie And Diploma Students. Students Appearing For Gate, Upsc, Net, Slet And Other Entrance Examinations Will Also Find Book Quite Useful. In Nineteen Chapters, The Book Deals With Atomic Structure, The Structure Of Solids; Crystal Defects; Chemical Bonding; Diffusion In Solids; Mechanical Properties And Tests Of Materials; Alloys, Phase Diagrams And Phase Transformations; Heat Treatment; Deformation Of Materials;

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Oxidation And Corrosion; Electric, Magnetic, Thermal And Optical Properties; Semiconductors; Superconductivity; Organic Materials; Composites; And Nanostructured Materials. Special Features: \* Fundamental Principles And Applications Are Discussed With Explanatory Diagrams In A Clear Way. \* A Full Coverage Of Background Topics With Latest Development Is Provided. \* Special Chapters On Nanostructured Materials, Superconductivity, Semiconductors, Polymers, Composites, Organic Materials Are Given . \* Solved Problems, Review Questions, Problems, Short-Question Answers And Typical Objective Type Questions Alongwith Suggested Readings Are Given With Each Chapter.

Updated and expanded second edition covers all aspects of capsule technology, including history, standards, methods and equipment used in manufacture, filling, printing, weighing, cleaning and inspecting of both hard and soft capsules.

Chaetomium genus was established by Gustav Kunze in 1817. According to Index Fungorum Partnership, there are 273 Chaetomium species accepted till now. Members of the genus Chaetomium are capable of colonizing various substrates and are well-known for their ability to degrade cellulose and to produce a variety of bioactive metabolites. More than 200 compounds have been reported from this genus. A huge number of new and bioactive secondary metabolites associated with unique and diverse structural types, such as chaetoglobosins, epipolythiodioxopiperazines, azaphilones, depsidones, xanthonones, anthraquinones, chromones, and steroids, have

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been isolated and identified. Many of the compounds have been reported to possess significant biological activities, such as antitumor, antimalarial, cytotoxic, enzyme inhibitory, antimicrobial, phytotoxic, antirheumatoid and other activities. Chaetomium taxa are frequently reported to be cellulase and ligninase producers with the ability to degrade cellulosic and woody materials. This is the first, comprehensive volume covering Chaetomium genus in detail. It includes the latest research, methods, and applications, and was written by scholars working directly in the field. The book also contains informative illustrations and is fully referenced for further reading.

For one-semester, undergraduate-level courses in Optoelectronics and Photonics, in the departments of electrical engineering, engineering physics, and materials science and engineering. This text takes a fresh look at the enormous developments in electro-optic devices and associated materials.

In any definition of terms, Dutch literature must be taken to mean all literature written in Dutch, thus excluding literature in Frisian, even though Friesland is part of the Kingdom of the Netherlands, in the same way as literature in Welsh would be excluded from a history of English literature. Similarly, literature in Afrikaans (South African Dutch) falls outside the scope of this book, as Afrikaans from the moment of its birth out of seventeenth-century Dutch grew up independently and must be regarded as a language in its own right. Dutch literature, then, is the

literature written in Dutch as spoken in the Kingdom of the Netherlands and the so-called Flemish part of the Kingdom of Belgium, that is the area north of the linguistic frontier which runs east-west through Belgium passing slightly south of Brussels. For the modern period this definition is clear enough, but for former times it needs some explanation. What do we mean, for example, when we use the term 'Dutch' for the medieval period? In the Middle Ages there was no standard Dutch language, and when the term 'Dutch' is used in a medieval context it is a kind of collective word indicating a number of different but closely related Frankish dialects. The most important of those were the dialects of the duchies of Limburg and Brabant, and of the counties of Flanders and Holland.

Publisher Description

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