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**Advanced Calculus** - Wilfred Kaplan 1952

**Schaum's Elektromagnetika** -

**Distributed Algorithms** - Wan Fokkink 2013-12-06
A comprehensive guide to distributed algorithms that emphasizes examples and exercises rather than mathematical argumentation. This book offers students and researchers a guide to distributed algorithms that emphasizes examples and exercises rather than the intricacies of mathematical models. It avoids mathematical argumentation, often a stumbling block for students, teaching algorithmic thought rather than proofs and logic. This approach allows the student to learn a large number of algorithms within a relatively short span of time. Algorithms are explained through brief, informal descriptions, illuminating examples, and practical exercises. The examples and exercises allow readers to understand algorithms intuitively and from different perspectives. Proof sketches, arguing the correctness of an algorithm or explaining the idea behind fundamental results, are also included. An appendix offers pseudocode descriptions of many algorithms. Distributed algorithms are performed by a collection of computers that send messages to each other or by multiple software threads that use the same shared memory. The algorithms presented in the book are for the most part “classics,” selected because they shed light on the algorithmic design of distributed systems or on key issues in distributed computing and concurrent programming. Distributed Algorithms can be used in courses for upper-level undergraduates or graduate students in computer science, or as a reference for researchers in the field.
Schaum's Outline of Continuum Mechanics - George Mase 1970
For comprehensive—and comprehensible—coverage of both theory and real-world applications, you can’t find a better study guide than Schaum’s Outline of Continuum Mechanics. It gives you everything you need to get ready for tests and earn better grades! You get plenty of worked problems—solved for you step by step—along with hundreds of practice problems. From the mathematical foundations to fluid mechanics and viscoelasticity, this guide covers all the fundamentals—plus it shows you how theory is applied. This is the study guide to choose if you want to ace continuum mechanics!
*Modul Pembelajaran Kalkulus Peubah Banyak* - Dr. Joko Soebagyo, M.Pd. 2021-12-06
Buku ini mencakup diferensial, integral dan kalkulus vektor untuk fungsi lebih dari satu variabel. Aplikasi dari mata kuliah ini digunakan secara luas dalam ilmu fisika, teknik, ekonomi, dan grafik komputer.
**A Path to Modern Mathematics** - Walter Warwick Sawyer 1971

**Elektromagnetika** - Erfan Achmad Dahlan 2017-03-01
Buku Elektromagnetika ini adalah buku teks yang cukup ideal untuk materi kuliah selama satu semester mahasiswa jenjang S1 jurusan Teknik Elektro pada tingkat awal yang menempuh mata kuliah Fisika listrik dan Elektromagnetika. Buku ini diawali dengan tinjauan secara umum definisi elektromagnetika dan aplikasi elektromagnetika di berbagai disiplin ilmu dan diakhiri dengan tinjauan perbedaan kajian teori medan elektromagnetika dan teori rangkaian listrik yang merupakan dua teori yang popular di bidang teknik elektro. Untuk menjelaskan konsep dasar, notasi, representasi, prinsip dan hukum yang terkait dengan elektromagnetika diperlukan analisis vektor sebagai alat matematika yang sangat cocok dan komprehensif menjelaskan teori medan elektromagnetik yang dirangkum oleh persamaan Maxwell dalam bentuk difrensial dan integral. Buku ini membahas pokok bahasan medan elektrostatika, diawali oleh analisis vektor dan hukum-hukum yang terkait dengan medan elektrostatika, yaitu hukum-hukum Coulomb, Gauss, teorema divergensi, teorema Stoke dan diakhiri dengan persamaan Poisson dan Laplace. Untuk mempermudah pembaca dalam mempelajari elektromagnetika, penulis berusaha menampilkan detil-detil matematika dengan urutan yang mudah dipahami dan memberikan contoh-contoh soal dan latihan soal yang cukup berlimpah sehingga diharapkan pembaca dapat melakukan pembelajaran secara mandiri.
*Engineering Electromagnetics* - William Hart Hayt 2006
"Now in its Seventh Edition, Bill Hayt and John Buck's Engineering Electromagnetics is a classic book that has been updated for electromagnetics today. - This widely respected book stresses fundamentals and problem solving, and discusses the material in an understandable, readable way. Numerous illustrations and analogies are provided to aid the reader in grasping difficult concepts. - In addition, independent learning is facilitated by the presence of many examples and problems."--Jacket.
*Magneto-Fluid Dynamics* - Paul Lorrain 2007-10-31
This book provides an understanding of the physics at work in sunspots and solar coronal loops, and offers a new approach to Magneto-Fluid-Dynamics (or Magneto-Hydro-Dynamics).The book stresses the use of electric currents in Magneto-Fluid-Dynamics. As a rule, authors discuss magnetic field lines without referring to the required electric currents. It also stresses the importance of electric space charges inside conductors that move in magnetic fields.
**So. Kalkulus Lanjut Ed. 2** - Robert Wrede 2007

Physics for Scientists and Engineers, Chapters 1-39 - Raymond A. Serway 2012-02-01
As a market leader, PHYSICS FOR SCIENTISTS AND ENGINEERS is one of the most powerful brands in the physics market. However, rather than resting on that reputation, the new edition of this text marks a significant advance in the already excellent quality of the book. While preserving concise language, state of the art educational pedagogy, and top-notch worked examples, the Eighth Edition features a unified art design as well as streamlined and carefully reorganized problem sets that enhance the thoughtful instruction for which Raymond A. Serway and John W. Jewett, Jr. earned their reputations. Likewise, PHYSICS FOR SCIENTISTS AND ENGINEERS will continue to accompany Enhanced WebAssign in the most integrated text-technology offering available today. In an environment where new Physics texts have appeared with challenging and novel means to teach students, this book exceeds all modern standards of education from the most solid foundation in the Physics market today. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
Semburan Fluida Berpusar di dalam Ruang-Bakar Motor-Bakar Torak - Wegie Ruslan 2020-01-23

**Elements of Electromagnetics** - Matthew N. O. Sadiku 1995
The basic objective of this highly successful text--to present the concepts of electromagnetics in a style that is clear and interesting to read--is more fully-realized in this Second Edition than ever before.Thoroughly updated and revised, this two-semester approach to fundamental concepts and applications in electromagnetics begins with vector analysis--which is then applied throughout the text. A balanced presentation of time-varying fields and static fields prepares students for employment in today's industrial and manufacturing sectors.Mathematical

theorems are treated separately from physical concepts.Students, therefore, do not need to review any more mathematics than their level of proficiency requires. Sadiku is well-known for his excellent pedagogy, and this edition refines his approach even further. Student-oriented pedagogy comprises: chapter introductions showing how the forthcoming material relates to the previous chapter, summaries, boxed formulas, and multiple choice review questions with answers allowing students to gauge their comprehension. Many new problems have been added throughout the text.

*Elektrodinamika* - Nazaruddin Nasution 2023-01-24

Elektrodinamika secara umum diartikan sebagai ilmu yang mempelajari gejala kemagnetikan yang timbul akibat adanya aliran aruslistrik yang disebut dengan Induksi maganet, adapun induksi magnet yang di bahas dalam buku ini berasal dari kawat lurus, kawat melingkar, solinoida dan terioda. Selain membahas medan magnet yang timbul akibat aliran listrik yang mengalir dalam elektromagnetik ini juga di bahas bagaimana suatu sumber listrik bisa tercipta dari perubahan medan magnetik yang menghasilkan GGL. Dan dalam penerapannya ggl ini akan berkembang pencabarannya dalam pembahasan konsep konsep kelistrikan lainnya. Pada akhirnya dalam melengkapi cakupan bahasan elektrodinamika tiak lupput juga di bahas mengenai gaya gaya yang timbul, dan gejala gejala kelistrikan yang mengenai aliran listrik arus bolak balik, yang sering dikenal dengan Rangakaian Resistor, Induktor dan Kapasitor.

**Electromagnetic Fields and Waves** - Magdy F. Iskander 2000-04-01

*Problems and Solutions on Thermodynamics and Statistical Mechanics* - Yung-kuo Lim 1990

Volume 5.

*Foundations of electromagnetic theory* - John R. Reitz 1974

**Div, Grad, Curl, and All that** - Harry Moritz Schey 2005

This new fourth edition of the acclaimed and bestselling Div, Grad, Curl, and All That has been carefully revised and now includes updated notations and seven new example exercises.

Buku Ajar Listrik dan Magnet: Seri “Teori Medan & Elektrostatik” - Febdian Rusydi 2020-01-08

Seri Pertama Buku ini, fokus pada teori medan dan kasus elektrostatik. Seri kedua fokus pada kasus magnetostatik dan elektrodinamika.

**Penyelesaian Soal ON MIPA-PT** - Abdurrouf 2014-12-01

Penulisan buku ini dilatarbelakangi oleh adanya kegiatan kompetisi tahunan untuk mahasiswa yang diselenggarakan oleh Kemendikbud berupa Olimpiade Nasional Bidang Matematika dan IPA tingkat Perguruan Tinggi, atau ON MIPA-PT. Buku ini merupakan seri kedua dari 4 buku yang direncanakan untuk ditulis. Buku ini merupakan kumpulan catatan dan analisis penulis terhadap kegiatan ON MIPA-PT bidang Fisika untuk bidang uji Elektrodinamika, dan dimaksudkan sebagai panduan dalam memberikan pedampingan bagi mahasiswa yang mau berkompetisi dalam ajang tersebut. Bagian terbesar dari buku ini berisi contoh soal ON MIPA-PT bidang uji elektrodinamika, baik tingkat provinsi maupun nasional, berikut referensi terkait. Beberapa contoh soal diberikan padanannya dalam buku referensi. Buku ini juga menyajikan pembahasan soal elektrodinamika. Tidak ada klaim akan kebenaran penyelesaian yang diberikan. Sekalipun demikian diharapkan jawaban yang ada mampu menginspirasi mahasiswa dan diharapkan bermanfaat bagi mereka yang ingin mempersiapkan diri untuk ajang tersebut.

*Electromagnetic Fields* - Roald K. Wangsness 2000

**Handbook of Physics** - Walter Benenson 2006-01-13

Handbook of Physics is a veritable toolbox for rapid access to a wealth of physics information for everyday use in problem solving, homework, and examinations. This complete reference includes not only the fundamental formulas of physics but also experimental methods used in practice.

*Fisika Matematika I* - Elin Yusibani 2017-01-16

Buku ajar ini dibuat sebagai pendamping untuk matakuliah Fisika Matematika I yang diajarkan untuk mahasiswa Program Studi Sarjana Fisika, Fakultas Matematika dan Ilmu Pengetahuan Alam (FMIPA), Universitas Syiah Kuala pada tahun kedua masa perkuliahannya (semester 3). Buku ajar ini terdiri dari deret takhingga pada bab satu selanjutnya bilangan kompleks, persamaan linear, vektor, matrik dan determinan, diferensiasi parsial pada bab empat, integral lipat dan terakhir adalah analisis vektor.

Now: The Physics of Time - Richard A. Muller 2016-09-20

From the celebrated author of the best-selling Physics for Future Presidents comes “a provocative, strongly argued book on the fundamental nature of time” (Lee Smolin). You are reading the word "now" right now. But what does that mean? "Now" has bedeviled philosophers, priests, and modern-day physicists from Augustine to Einstein and beyond. In Now, eminent physicist Richard A. Muller takes up the challenge. He begins with remarkably clear explanations of relativity, entropy, entanglement, the Big Bang, and more, setting the stage for his own revolutionary theory of time, one that makes testable predictions. Muller’s monumental work will spark major debate about the most fundamental assumptions of our universe, and may crack one of physics’ longest-standing enigmas.

*Matematika Teknik* - Dra. Kumala Indriati, M. Si 2019-07-25

Buku Matematika Teknik ini disusun untuk memenuhi kebutuhan Mahasiswa Fakultas Teknik, Program Studi Teknik Mesin , dan Program Studi Teknik Elektro di Unika Atma Jaya, Jakarta khususnya, dan Mahasiswa Fakultas Teknik di luar Unika Atma Jaya pada umumnya. Materi buku ini meliputi : □ Persamaan Diferensial □ Aplikasi Persamaan Diferensial tingkat satu derajat satu □ Persamaan Diferensial Tingkat n dengan koefisien tetap □ Persamaan Diferensial Linier dengan koefisien variable □ Persamaan Diferensial Simultan □ Bilangan kompleks □ Fungsi, Limit dan Kontinuitas bilangan kompleks □ Diferensial Fungsi kompleks □ Integral dari Fungsi kompleks □ Teorema Residu Penyusun menyadari bahwa buku ini jauh dari sempurna. Untuk itu segala kritik dan saran-saran yang membangun sangat diharapkan untuk penyempurnaan buku ini. Akhir kata penulis mengucapkan terima kasih kepada Penerbit Universitas Katolik Indonesia Atma Jaya Jakarta, yang telah bersedia menerbitkan buku ini.

**Matematika untuk fisika** - Muhammad Arsyad 2010-01-01

Buku Matematika untuk Fisika berisi 14 (empat belas) bab diperuntukkan untuk mahasiswa tahun kedua. Buku ini diperuntukkan bagi mahasiswa yang menekuni bidang Fisika, Teknik dan bidang aplikatif lainnya. Materinya dimulai dengan memperkenalkan deret, bilangan kompleks, diferensial parsial sampai kepada persamaan diferensial bentuk lain. Pada materi persamaan linear, penulis memperlihatkan bagaimana menyelesaikan persamaan tersebut dengan cara matriks dan determinan, sehingga tidak membutuhkan cara substitusi seperti selama ini diketahui.

Schaum's Outline of Theory and Problems of Vector Analysis and an Introduction to Tensor Analysis - Murray R. Spiegel 1959

This book introduces students to vector analysis, a concise way of presenting certain kinds of equations and a natural aid for forming mental pictures of physical and geometrical ideas. Students of the physical sciences and of physics, mechanics, electromagnetic theory, aerodynamics and a number of other fields will find this a rewarding and practical treatment of vector analysis. Key points are made memorable with the hundreds of problems with step-by-step solutions, and many review questions with answers.

Matematika Untuk Fisika 2 - Abdul Hamid 2022-02-17

Buku ini adalah kelanjutan dari buku Matematika untuk Fisika 1, yang mana materi yang dibahas mengenai matematika dalam bidang ilmu fisika serta penerapannya. Materi yang dijelaskan secara sederhana dengan menyertakan definisi dan pembuktian formulanya. Materinya terkait Diferensial, Integral, Deret, dan lain-lain.

**Qualitative Research In Education** - Robert R. Sherman 2004-08-02

Published in the year 1988, Qualitative Research In Education is a valuable contribution to the field of Education.

**Introduction to CLASSICAL MECHANICS** - A.J. French 2012-12-06

This book is, in essence, an updated and revised version of an earlier textbook, Newtonian Mechanics, written about fifteen years ago by one of us (APF) and published in 1971. The book has been significantly changed in emphasis as well as length. Our aim has

been to produce a mechanics text, suitable for use at beginning university level, for students who have a background typified by the British sixth-form level in physics and mathematics. We hope, however, that the book will also be found useful in the teaching of mechanics at the upper levels of the secondary schools themselves. Calculus is freely used from the outset. In making the present revision we have drastically cut down on the amount of historical and more discursive material. Nevertheless, our goal has been to present classical mechanics as physics, not as applied mathematics. Although we begin at the beginning, we have aimed at developing the basic principles and their applications as rapidly as seemed reasonable, so that by the end of the book students will be able to feel that they have achieved a good working knowledge of the subject and can tackle fairly sophisticated problems. To help with this process, each chapter is followed by a good number of exercises, some of them fairly challenging. We shall be very grateful to receive comments and corrections from those who use this book.

**Math Makes Sense** - 2008

**Elektromagnetisme** - Lailatin Nuriyah 2017-09-01
Mata kuliah listrik magnet, atau pada tingkatan yang lebih lanjut, elektrodinamika, adalah salah satu mata kuliah paling penting di jurusan fisika, teknik elektro, teknik komputer, dll. Bidang kajian elektromagnetisme juga merupakan bidang yang berperan paling besar dalam kemajuan teknologi. Buku ini merupakan buku yang ditulis untuk menjadi pegangan belajar bagi mahasiswa yang sedang menekuni masalah elektromagnetik.

**Introduction To Mathematical Physics** - Charlie Harper 2003

**ANALISIS VEKTOR** - Mayang Dintarini 2019-10-05
Buku analisis vektor ini memberikan pemahaman mengenai konsep dasar vektor. Konsep dasar ini dibutuhkan mahasiswa untuk diajarkan kepada muridnya kelak. Pembahasan vektor tingkat lanjut juga dibahas dalam buku ini, untuk menambah pengetahuan dan wawasan bagi mahasiswa. Mahasiswa perlu memahami bahwa pembahasan Kalkulus, tidak hanya pada ranah fungsi skalar, namun juga pada ranah fungsi vektor. Hal ini terbilang baru bagi mahasiswa, karena pada jenjang sebelumnya mahasiswa hanya mengetahui limit, turunan, dan integral fungsi skalar, sebagai contoh fungsi linier, kuadrat, polinomial, rasional, trigonomeri dan sebagainya. Untuk memaksimalkan pemahaman pembaca, buku ini telah dilengkapi dengan fakta, konsep, prinsip dan prosedur, yang disajikan dalam definisi, teorema, gambar, contoh soal, tugas diskusi dan kelompok serta rangkumann di setiap babnya. Dengan terbitnya buku Analisis Vektor ini diharapkan dapat memperkaya referensi bagi dosen dan mahasiswa tentang Analisis Vektor.

*Linear Algebra, Geodesy, and GPS* - Gilbert Strang 1997-01-01
Discusses algorithms generally expressed in MATLAB for geodesy and global positioning. Three parts cover basic linear algebra, the application to the (linear and also nonlinear) science of measurement, and the GPS system and its applications. A popular article from SIAM News (June 1997) The Mathematics of GPS is included as an introduction. Annot

**Quantum Learning** - Bobbi DePorter 1992
Identifies different learning styles and offers strategies for increasing learning potential and improving memory skills

*Chemometrics* - Matthias Otto 2016-09-30
The third edition of this long-selling introductory textbook and ready reference covers all pertinent topics, from basic statistics via modeling and databases right up to the latest regulatory issues. The experienced and internationally recognized author, Matthias Otto, introduces the statistical-mathematical evaluation of chemical measurements, especially analytical ones, going on to provide a modern approach to signal processing, designing and optimizing experiments, pattern recognition and classification, as well as modeling simple and nonlinear relationships. Analytical databases are equally covered as are applications of multiway analysis, artificial intelligence, fuzzy theory, neural networks, and genetic algorithms. The new edition has 10% new content to cover such recent developments as orthogonal signal correction and new data exchange formats, tree based classification and regression, independent component analysis, ensemble methods and neuro-fuzzy systems. It still retains, however, the proven features from previous editions: worked examples, questions and problems, additional information and brief explanations in the margin.

Vector Analysis - Josiah Willard Gibbs 1909

**Sets, Functions, and Logic** - Keith Devlin 2018-10-03
Keith Devlin. You know him. You've read his columns in MAA Online, you've heard him on the radio, and you've seen his popular mathematics books. In between all those activities and his own research, he's been hard at work revising Sets, Functions and Logic, his standard-setting text that has smoothed the road to pure mathematics for legions of undergraduate students. Now in its third edition, Devlin has fully reworked the book to reflect a new generation. The narrative is more lively and less textbook-like. Remarks and asides link the topics presented to the real world of students' experience. The chapter on complex numbers and the discussion of formal symbolic logic are gone in favor of more exercises, and a new introductory chapter on the nature of mathematics--one that motivates readers and sets the stage for the challenges that lie ahead. Students crossing the bridge from calculus to higher mathematics need and deserve all the help they can get. Sets, Functions, and Logic, Third Edition is an affordable little book that all of your transition-course students not only can afford, but will actually read...and enjoy...and learn from. About the Author Dr. Keith Devlin is Executive Director of Stanford University's Center for the Study of Language and Information and a Consulting Professor of Mathematics at Stanford. He has written 23 books, one interactive book on CD-ROM, and over 70 published research articles. He is a Fellow of the American Association for the Advancement of Science, a World Economic Forum Fellow, and a former member of the Mathematical Sciences Education Board of the National Academy of Sciences,. Dr. Devlin is also one of the world's leading popularizers of mathematics. Known as "The Math Guy" on NPR's Weekend Edition, he is a frequent contributor to other local and national radio and TV shows in the US and Britain, writes a monthly column for the Web journal MAA Online, and regularly writes on mathematics and computers for the British newspaper The Guardian.

*Visual Representations and Interpretations* - Ray Paton 2012-12-06
The value of multi-disciplinary research and the exchange of ideas and methods across traditional discipline boundaries are well recognised. Indeed, it could be justifiably argued that many of the advances in science and engineering take place because the ideas, methods and the tools of thought from one discipline become re applied in others. Sadly, it is also the case that many subject areas develop specialised vocabularies and concepts and can consequently approach more general problems in fairly narrow, subject-specific ways. Consequently barriers develop between disciplines that prevent the free flow of ideas and the collaborations that on Visual Representations could often bring success. VRI'98, a workshop focused & Interpretations, was intended to break down such barriers. The workshop was held in the Foresight Conference Centre, which occupies part of the former Liverpool Royal Infirmary, a Grade 2 listed building, which has been recently restored. The building combines a majestic architecture with the latest in new conference facilities and technologies and thus provided a very suitable setting for a workshop aimed at bringing the Arts and the Sciences together. of the workshop was to promote inter-disciplinary awareness across The main aim a range of disciplines where visual representations and interpretations are exploited. Contributions to the workshop were therefore invited from researchers who are actively investigating visual representations and interpretations: - artists, architects, biologists, chemists, clinicians, cognitive scientists, computer scientists, educationalists, engineers, graphic designers, linguists, mathematicians, philosophers, physicists, psychologists and social scientists.