

Digital Storage Oscilloscopes 1st Edition By Hickman Euring Bsc Hons C Eng Mieee Mieee Ian 1997 Paperback

Design and Development of Medical Electronic Instrumentation fills a gap in the existing medical electronic devices literature by providing background and examples of how medical instrumentation is actually designed and tested. The book includes practical examples and projects, including working schematics, ranging in difficulty from simple biopotential amplifiers to computer-controlled defibrillators. Covering every stage of the development process, the book provides complete coverage of the practical aspects of amplifying, processing, simulating and evoking biopotentials. In addition, two chapters address the issue of safety in the development of electronic medical devices, and providing valuable insider advice.

Rapid technological developments in the last century have brought the field of biomedical engineering into a totally new realm. Breakthroughs in material science, imaging, electronics and more recently the information age have improved our understanding of the human body. As a result, the field of biomedical engineering is thriving with new innovations that aim to improve the quality and cost of medical care. This book is the first in a series of three that will present recent trends in biomedical engineering, with a particular focus on electronic and communication applications. More specifically: wireless monitoring, sensors, medical imaging and the management of medical information.

This much-loved textbook introduces electrical and electronic principles and technology to students who are new to the subject. Real-world situations and engineering examples put the theory into context. The inclusion of worked problems with solutions really help aid your understanding and further problems then allow you to test and confirm you have mastered each subject. In total the books contains 410 worked problems, 540 further problems, 340 multiple-choice questions, 455 short-answer questions, and 7 revision tests with answers online. This an ideal text for vocational courses enabling a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. It will also be an excellent refresher for foundation and undergraduate degree students. It is supported by a companion website that contains solutions to the 540 questions in the practice exercises, formulae to help students answer the questions, multiple choice questions linked to each of the 23 chapters and information about the famous mathematicians and scientists mentioned in the book. Lecturers also have access to full solutions and the marking scheme for the 7 revision tests, lesson plans and illustrations from the book.

The importance of measuring instruments is well known in the various engineering fields. The book provides comprehensive coverage of various analog, electronic and digital instruments, d.c. and a.c. bridges, signal generators and analyzers, virtual instrumentation and data acquisition system. The book starts with explaining the theory of measurement including characteristics of instruments, classification, standards, statistical analysis and limiting errors. Then the book explains the various analog and electronic instruments such as PMMC, moving iron, electro-dynamometer type, true RMS, Q-meter and sampling voltmeter. The

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book also includes the discussion of various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. The book incorporates the detailed discussion of various types of oscilloscopes including simple, dual beam, dual trace, analog storage, sampling and digital oscilloscope. It also explains the various oscilloscope measurements and Lissajous figures. The book further explains the various signal generators and analyzers. It also covers the discussion of DAC, ADC, various digital instruments and data acquisition system. Finally the book provides the details of computer controlled systems, virtual instrumentation and fiber optic measurements. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Now thoroughly revised and completely updated, this second edition of Stan Prentiss' popular, bestselling Complete Book of Oscilloscopes gives you an in-depth reference source and a practical applications guide in one easy-to-use volume. Whether you're a hobbyist or a professional technician, you'll appreciate the easy-to-read style, the logical format, and the wealth of descriptive photographs and illustrations in The Complete Book of Oscilloscopes -2nd Edition.

Proceedings of the EC Contractors' Meeting held in Brussels, 16-17 November 1982

All English-translated Chinese codes are available at: www.codeofchina.com

The importance of electronic measuring instruments and transducers is well known in the various engineering fields. The book provides comprehensive coverage of various electronic measuring instruments, transducers, data acquisition system, oscilloscopes and measurement of physical parameters. The book starts with explaining the theory of measurement including characteristics of instruments, classification, statistical analysis and limiting errors. Then the book explains the various analog and digital instruments such as average and true rms responding voltmeters, chopper and sampling voltmeter, types of digital voltmeters, multimeter and ohmmeter. It also includes the discussion of high frequency impedance measurement. The book further explains types of signal generators and various signal analyzers such as wave analyzer, logic analyzer, distortion analyzer and power analyzer. The book teaches various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. The book incorporates the discussion of various types of conventional and special purpose oscilloscopes. The book includes the discussion of time and frequency measurement and types of recorders. The chapter on transducers is dedicated to the detailed discussion of various types of transducers. The book also includes the measurement of various physical parameters such as flow, displacement, velocity, force, pressure and torque. Finally, it incorporates the discussion of data acquisition system. Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of

the subject which makes the understanding of the concepts very clear and makes the subject more interesting. With the advancement of technology in integrated circuits, instruments are becoming increasingly compact and accurate. This revision covers in detail the digital and microprocessor-based instruments. The systematic discussion of their working principle, operation, capabilities, and limitations will facilitate easy understanding of the instruments as well as guide the user select the right instrument for an application.

A substantial update of his earlier book "Modern Electronic Test and Measuring Instruments" (IEE, 1996), the author provides a state-of-the art review of modern families of digital instruments. For each family he covers internal design, use and applications, highlighting their advantages and limitations from a practical application viewpoint. New enabling semiconductor technology including data converters, signal processors and modern sensors offers new capabilities to instrument designers and the book treats new digital instrument families such as DSOs, Arbitrary Function Generators, FFT analysers and many other common systems used by the test engineers, designers and research scientists.

Digital Storage Oscilloscopes Elsevier

This work covers the basics for an understanding of ultrasonics and its potential applications in important fields of science and technology. Transducers and Instrumentation are dealt in individual chapters due to their prime importance in ultrasonic applications. Topics covered are applications of ultrasound science and technology for materials characterization, NDT, underwater acoustics, medical ultrasound, and molecular interaction.

Electronic and Electrical Servicing – Level 3 follows on from the Level 2 book and covers the more advanced electronics and electrical principles required by service engineers servicing home entertainment equipment such as TVs, CD and DVD machines, as well as commercial equipment including PCs. All the core units of the Level 3 Progression Award in Electrical and Electronics Servicing (Consumer/Commercial Electronics) from City & Guilds (C&G 6958) are covered. The book also offers a fully up-to-date course text for the City & Guilds 1687 NVQ at Level 3. The book contains numerous worked examples to help students grasp the principles. Each chapter ends with review questions, for which answers are provided at the end of the book, so that students can check their learning. Units covered: Unit 1 – Electronic principles Unit 2 – Test and measurement Unit 3 – Analogue electronics Unit 4 – Digital electronics Ian Sinclair has been an author of market-leading books for electronic servicing courses for over 20 years, helping many thousands of students through their college course and NVQs into successful careers. Now with a new co-author, John Dunton, the new edition has been brought fully up-to-date to reflect the most recent technical advances and developments within the service engineering industry, in particular with regard to television and PC servicing and technology. Level 2 book: Electronic and Electrical Servicing, ISBN 978-0-7506-6988-7, covers the 5 core units at Level 2, plus the option units Radio and

television systems technology (Unit 6) and PC technology (Unit 8).

This book is written in a simple and easy-to-understand language to explain the fundamental concepts of the subject. The book presents the subject of EIPC in a comprehensive manner to the students at undergraduate level. This book not only covers the entire scope of the subject but also explains the philosophy of the subject. This makes the understanding of the subject more clear and interesting. The book will be very useful not only to the students but also to the faculty members.

The book covers all the aspects of the course Electrical Instrumentation and Process Control for the undergraduate students. The various types of transducers, measurement of flow, pressure, level, velocity, discussion of telemetry, data acquisition system, display devices, recorders, computer aided measurements, optic fiber and smart sensors and various types of controllers are explained in the book with the help of comprehensive approach. The book starts with classification, characteristics and selection factors for the transducers. It also explains the resistive transducers, strain gauge, RTD, thermistors, thermocouples, inductive transducers and LVDT. Then the book covers the capacitive, piezoelectric and Hall effect transducers. It also includes the methods of measurement of motion pressure, flow, velocity and level. The book also includes the chapters on telemetry and data acquisition system. The chapter on display devices and recorders includes the discussion of various display devices such as LED, LCD, dot matrix and their applications. The discussion of oscilloscope measurements, Lissajous figure and digital storage oscilloscope is included in support. The book further explains various types of recorders, spectrum analyzer, digital data recording and techniques of DAC and ADC. The inclusion of recent developments in measurements such as computer aided measurement, optical fiber and smart sensors is the feature of the book. Finally, various controllers used in process control are discussed including the discussion of electronic, pneumatic and digital controllers. The book also incorporates the discussion of PLC and its applications. Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the comprehensive theory and real time practical examples. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Communications System Laboratory offers an integrated approach to communications system teaching. Inspired by his students' expressed desire to read background theory explained in simple terms and to obtain practical computer training, Dr. Kumar has crafted this textbook, ideal for a first course in communication systems. The book merges theory with practical software and hardware applications. Each chapter includes the following components: a brief theory that describes the underlying mathematics and principles, a problem-solving section with a set of typical problems, a

computer laboratory with programming examples and exercises in MATLAB® and Simulink®, and finally, in applicable chapters, a hardware laboratory with exercises using test and measurement equipment. Covering fundamental topics such as frequency and bandwidth, as well as different generations of modulation including current 4G long-term evolution (LTE) techniques and future technologies like ultra wideband (UWB) systems, Communications System Laboratory provides engineering students with a deeper understanding of how electronic communications link the world.

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

The book is meant for B.E./B.Tech. students of different universities of India and abroad. It contains all basic material required at undergraduate level. The author has included "Examination questions" from several Indian Universities as solved examples. The sections on "Descriptive Questions" and "Multiple Choice Questions" contains the theory type examination questions and objective questions respectively.

Distributed power generation is a technology that could help to enable efficient, renewable energy production both in the developed and developing world. It includes all use of small electric power generators, whether located on the utility system, at the site of a utility customer, or at an isolated site not connected to the power grid. Induction generator (IG) is the most commonly used and cheapest technology, compatible with renewable energy resources. Permanent magnet (PM) generators have traditionally been avoided due to high fabrication costs; however, compared with IGs they are more reliable and productive. Distributed Generation thoroughly examines the principles, possibilities and limitations of

creating energy with both IGs and PM generators. It takes an electrical engineering approach in the analysis and testing of these generators, and includes diagrams and extensive case study examples to better demonstrate how the integration of energy sources can be accomplished. The book also provides the practical tools needed to model and implement new techniques for generating energy through isolated or grid-connected systems. Besides a chapter introducing the technical, economic and environmental impacts of distributed generation, this book includes: an examination of various phase-balancing schemes for a three-phase IG operating on a single-phase power system; a coupled circuit 2-D finite element analysis of a grid-connected IG, with Steinmetz connection; a study of self-excited induction generator (SEIG) schemes for autonomous power systems, and the voltage and frequency control of SEIG with a slip-ring machine (SESRIG); a report on a PM synchronous generator with inset rotor for achieving a reduced voltage regulation when supplying an autonomous power system, and an analysis of its performance using a two-axis model and finite element method; experimental work on various IG and SEIG schemes. This book is a must-read for engineers, consultants, regulators, and environmentalists involved in energy production and delivery, helping them to evaluate renewable energy sources and to integrate these into an efficient energy delivery system. It is also a superior reference for undergraduates and postgraduates. Designers, operators, and planners will appreciate its unique contribution to the literature in this field.

Electric, Electronic and Control Engineering contains the contributions presented at the 2015 International Conference on Electric, Electronic and Control Engineering (ICEECE 2015, Phuket Island, Thailand, 5-6 March 2015). The book is divided into four main topics: - Electric and Electronic Engineering - Mechanic and Control Engineering - Informati
This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments. It will also be useful to the undergraduate students of electrical science branches of engineering and applied science. This book begins with an introduction to the electronic components and equipment, and the experiments for electronics workshop. Further, it covers experiments for basic electronics lab, electronic circuits lab and digital electronics lab. A separate chapter is devoted to the simulation of electronics experiments using PSpice. Each experiment has aim, components and equipment required, theory, circuit diagram, tables, graphs, alternate circuits, answered questions and troubleshooting techniques. Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students. The purpose of the experiments described here is to acquaint the students with: • Analog and digital devices • Design of circuits • Instruments and procedures for electronic test and measurement

Measurement and Instrumentation introduces undergraduate engineering students to the measurement principles and

the range of sensors and instruments that are used for measuring physical variables. Based on Morris's Measurement and Instrumentation Principles, this brand new text has been fully updated with coverage of the latest developments in such measurement technologies as smart sensors, intelligent instruments, microsensors, digital recorders and displays and interfaces. Clearly and comprehensively written, this textbook provides students with the knowledge and tools, including examples in LABVIEW, to design and build measurement systems for virtually any engineering application. The text features chapters on data acquisition and signal processing with LabVIEW from Dr. Reza Langari, Professor of Mechanical Engineering at Texas A&M University. Early coverage of measurement system design provides students with a better framework for understanding the importance of studying measurement and instrumentation Includes significant material on data acquisition, coverage of sampling theory and linkage to acquisition/processing software, providing students with a more modern approach to the subject matter, in line with actual data acquisition and instrumentation techniques now used in industry. Extensive coverage of uncertainty (inaccuracy) aids students' ability to determine the precision of instruments Integrated use of LabVIEW examples and problems enhances students' ability to understand and retain content

Electrical and instrumentation engineering is changing rapidly, and it is important for the veteran engineer in the field not only to have a valuable and reliable reference work which he or she can consult for basic concepts, but also to be up to date on any changes to basic equipment or processes that might have occurred in the field. Covering all of the basic concepts, from three-phase power supply and its various types of connection and conversion, to power equation and discussions of the protection of power system, to transformers, voltage regulation, and many other concepts, this volume is the one-stop, "go to" for all of the engineer's questions on basic electrical and instrumentation engineering. There are chapters covering the construction and working principle of the DC machine, all varieties of motors, fundamental concepts and operating principles of measuring, and instrumentation, both from a "high end" point of view and the point of view of developing countries, emphasizing low-cost methods. A valuable reference for engineers, scientists, chemists, and students, this volume is applicable to many different fields, across many different industries, at all levels. It is a must-have for any library.

The inclusion of an electrical measurement course in the undergraduate curriculum of electrical engineering is important in forming the technical and scientific knowledge of future electrical engineers. This book explains the basic measurement techniques, instruments, and methods used in everyday practice. It covers in detail both analogue and digital instruments, measurements errors and uncertainty, instrument transformers, bridges, amplifiers, oscilloscopes, data acquisition, sensors, instrument controls and measurement systems. The reader will learn how to apply the most

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appropriate measurement method and instrument for a particular application, and how to assemble the measurement system from physical quantity to the digital data in a computer. The book is primarily intended to cover all necessary topics of instrumentation and measurement for students of electrical engineering, but can also serve as a reference for engineers and practitioners to expand or refresh their knowledge in this field.

Covers the design, operations, diagnostics and testing of electrical insulation in high-voltage power networks. The book presents the fundamental properties of dielectrics essential for the optimum design of power systems. It provides a survey of advanced digital and electro-optic techniques used in both the field and research.

Oscilloscopes are essential tools for checking circuit operation and diagnosing faults, and an enormous range of models is available. But which is the right scope for a particular application? Which features are essential, which not so important? This handy guide tells you not only what to look for, but how to get the most from your 'scope. This new edition covers the latest improved models, including digital storage oscilloscopes, digital sampling oscilloscopes, time-domain reflectometers for use on metallic and optical transmission systems, and ultra high-speed single-shot event recorders. Other topics mentioned include the use of x/y and x/t plotters, thermal and dot matrix printers etc (whether built in or otherwise) as oscilloscope hardcopy output devices, and the use of personal computers with expansion cards providing oscilloscope or logic analyser facilities. Ian Hickman is one of the pen-names used by a professional electronics engineer of many years experience. BSc Hons, CEng, MIEE, MIEEE, a present and sometime member of various national and international standards committees concerned with equipment and systems level applications of electronics and communications. He is also the author of numerous articles in the technical press, and has written a number of books including 'Analog Electronics', 'Practical RF Handbook', 'EDN Designer's Companion' and 'Analog Circuits Cookbook', all of which are available from Butterworth-Heinemann.

This book is written in a simple and easy-to-understand language to explain the fundamental concepts of the subject. The book presents the subject of EMI in a comprehensive manner to the students at undergraduate level. This book not only covers the entire scope of the subject but also explains the philosophy of the subject. This makes the understanding of the subject more clear and interesting. The book will be very useful not only to the students but also to the faculty members. Any suggestions for the improvement of the book will be acknowledged and well appreciated.

Digital storage oscilloscopes have long since completely supplanted analog storage oscilloscopes and have reached a degree of sophistication and performance which enable them to rival the most advanced real time oscilloscopes. In this comprehensive handbook, which provides a practical vade mecum for the engineer, Ian Hickman describes how they work and how to use them to best advantage. A wide range of models is available. This book includes a guide to all

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makes and models and will be best kept beside the instrument for instant reference. It will also be a most helpful guide to the subject for students and trainees. Ian Hickman is an experienced designer and author of best-selling titles including 'Oscilloscopes: How to Use Them, How They Work', 'Newnes Practical Radio Frequency Handbook', 'Analog Electronics' and 'Analog Circuits Cookbook'.

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In this modern scientific world a thorough understanding of complex measurements and instruments is the need of the hour. This book provides a comprehensive coverage of the concepts and principles of measurements and instrumentation, and brings into focus the recent and significant developments in this field. The book presents an exhaustive exposition of different types of measuring instruments and their applications in an easy-to-grasp manner. It presents even the minute details of various measurement techniques and calibration methods, which are the essential features of a measurement programme. The book elaborates on the theoretical background and practical knowledge of different measuring instruments to make the students accustomed to these devices. An in-depth coverage of topics makes the text useful to somewhat more advanced courses and its elaborated methodology will help students meet the challenges in their career. This book is ideally suitable for undergraduate students (BE/B.Tech.) of Electrical, Electronics and Instrumentation and Control disciplines of engineering. It can be also used as reference book for the cable testing, testing of instruments transformers, testing of energy meters and measurement of physical variables. KEY FEATURES : Gives a number of chapter-end review questions and numerical problems for practice. Includes plenty of diagrams to clarify the concepts. Contains about 250 problems and 200 solved examples for the benefit of the students.

This is the book, in which the subject matter is dealt from elementary to the advance level in a unique manner. Three outstanding features can be claimed for the book viz. (i) style; the student, while going through the pages would feel as if he is attending a class room. (ii) language: that an average student can follow and (iii) approach: it takes the student from "known to unknown" and "simple to complex." The book is reader friendly, thought provoking and stimulating. It helps in clearing cobwebs of the mind. The style is lucid and un-adulterated. Unnecessary mathematics has been avoided. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

?The importance of measuring instruments and transducers is well known in the various engineering fields. The book provides comprehensive coverage of various electrical and electronic measuring instruments, transducers, data acquisition system, storage and display devices . The book starts with explaining the theory of measurement including characteristics of instruments, classification, standards,

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statistical analysis and limiting errors. Then the book explains the various electrical and electronic instruments such as PMMC, moving iron, electro-dynamometer type, energy meter, wattmeter, digital voltmeters and multimeters. It also includes the discussion of various magnetic measurements, instrument transformers, power factor meters, frequency meters, phase meters and synchros. The book further explains d.c. and a.c. potentiometers and their applications. The book teaches various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. The book incorporates the various storage and display devices such as, recorders, plotters, printers, oscilloscopes, LED, LCDs and dot matrix displays. The chapter on transducers is dedicated to the detailed discussion of various types of transducers such as resistive, capacitive, strain gauges, RTD, thermistors, inductive, LVDT, thermocouples, piezoelectric, photoelectric and digital transducers. It also adds the discussion of optical fiber sensors. The book also includes good coverage of data acquisition system, data loggers, DACs and ADCs. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. This text presents readers with an engaging while rigorous manual on the use of oscilloscopes in laboratory and field settings. It describes procedures for measuring and displaying waveforms, gives examples of how this information can be used for repairing malfunctioning equipment and developing new designs, and explains steps for debugging pre-production prototypes. The book begins by examining how the oscilloscope displays electrical energy as traces on X and Y co-ordinates, freely transitioning without loss of information between time and frequency domains, in accordance with the Fourier Transform and its modern correlate, the Fast Fourier Transform. The book continues with practical applications and case studies, describes how oscilloscopes are used in diagnosing pulse width modulation (PWM) problems--looking at serial data streaming and analyzing power supply noise and premises power quality issues—and emphasizes the great functionality of mixed-signal as opposed to mixed-domain oscilloscope, and earlier instruments. Featuring many descriptions of applications in applied science and physics, *Oscilloscopes: A Manual for Students, Engineers, and Scientists* is ideal for students, faculty, and practitioners.

Oscilloscopes are essential tools for checking circuit operation and diagnosing faults, and an enormous range of models are available. But which is the right one for a particular application? Which features are essential and which not so important? Ian Hickman has the answers. This handy guide to oscilloscopes is essential reading for anyone who has to use a 'scope for their work or hobby: electronics designers, technicians, anyone in industry involved in test and measurement, electronics enthusiasts... Ian Hickman's review of all the latest types of 'scope currently available will prove especially useful for anyone planning to buy - or even build - an oscilloscope. The science and electronics of how oscilloscopes work is explained in order to enhance the reader's appreciation of how to use their 'scope. The practical use of oscilloscope is explained with clarity and supported with examples, encouraging the reader to think about the application of their oscilloscope and improve their use of this complex instrument. The advance of digital technology makes this timely revision of Ian Hickman's well known book an essential update for electronics professionals and enthusiasts alike. The only fully up-to-date guide to oscilloscopes available A practical guide to getting the most out of an oscilloscope Essential reading for anyone planning to invest in an expensive piece of equipment

Of interest to researchers and practitioners in materials science, especially in the aerospace industry, 16 papers from a symposium in Atlanta, Georgia, November 1988 discuss the analysis, modeling, and behavior of both continuous and discontinuous ceramic and metal matrix

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composites, and methods of

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