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this newly revised and updated edition offers a current and complete introduction to the analysis and design of electro optical eo imaging systems the third edition provides numerous updates and several new chapters including those covering pilotage infrared search and track and simplified target acquisition model the principles and components of the linear shift invariant lsi infrared and electro optical systems are detailed in full and help you to combine this approach with calculus and domain transformations to achieve a successful imaging system analysis ultimately the steps described in this book lead to results in quantitative characterizations of performance metrics such as modulation transfer functions minimum resolvable temperature difference minimum resolvable contrast and probability of object discrimination the book includes an introduction to two dimensional functions and mathematics which can be used to describe image transfer characteristics and imaging system components

you also learn diffraction concepts of coherent and incoherent imaging systems which show you the fundamental limits of their performance by using the evaluation procedures contained in this desktop reference you become capable of predicting both sensor test and field performance and quantifying the effects of component variations the book contains over 800 time saving equations and includes numerous analyses and designs throughout it also includes a reference link to special website prepared by the authors that augments the book in the classroom and serves as an additional resource for practicing engineers with its comprehensive coverage and practical approach this is a strong resource for engineers needing a bench reference for sensor and basic scenario performance calculations numerous analyses and designs are given throughout the text it is also an excellent text for upper level students with an interest in electronic imaging systems

offers up to the minute coverage of the chemical properties of major and minor food constituents dairy products and food tissues of plant and animal origin in a logically organized step by step presentation ranging from simple to more complex systems third edition furnishes completely new chapters on proteins dispersions enzymes vitamins minerals animal tissue toxicants and pigments

real time or applied digital signal processing courses are offered as follow ups to conventional or theory oriented digital signal processing courses in many engineering programs for the purpose of teaching students the technical know how for putting signal processing algorithms or theory into practical use these courses normally involve access to a teaching laboratory that is equipped with hardware boards in particular dsp boards together with their supporting software a number of textbooks have been written discussing how to achieve real time implementation on these hardware boards this book discusses how to use smartphones as hardware boards for real time implementation of signal processing algorithms thus providing an alternative to the hardware boards that are used in signal processing laboratory courses the fact that mobile devices in particular smartphones have become powerful processing platforms led to the development of this book to enable students to use their own smartphones to run signal processing algorithms in real time considering that these days nearly all students possess smartphones changing the hardware platforms that are currently used in applied or real time signal processing courses to smartphones creates a truly flexible laboratory experience or environment for students in addition it relieves the cost burden associated with using dedicated signal processing boards noting that the software development tools for smartphones are free of charge and are well maintained by smartphone manufacturers this book is written in such a way that it can be used as a textbook for real time or applied digital signal processing courses offered at many universities ten lab experiments that are commonly encountered in such courses are covered in the book it is written primarily for those who are already familiar with signal processing concepts and are interested in their real time and practical aspects similar to existing real time courses knowledge of c programming is assumed this book can also be used as a self study guide for those who wish to become familiar with

signal processing app development on either android or ios smartphones tablets

this third edition of the bestselling remote sensing for geologists a guide to image interpretation is now titled remote sensing for geoscientists image analysis and integration the title change reflects that this edition applies to a broad spectrum of geosciences not just geology stresses that remote sensing has become more than photointerpretation and emphasizes integration of multiple remote sensing technologies to solve earth science problems the text reviews systems and applications explains what to look for when analyzing imagery and provides abundant case histories to illustrate the integration and application of these tools see what s new in the second edition broader coverage to include integration of multiple remote sensing technologies expanded with significant new illustrations in color and reviews of new satellites and sensors analysis of imagery for geobotanical remote sensing remote geochemistry modern analogs to ancient environments and astrogeology the book covers how to initiate a project including determining the objective choosingthe right tools and selecting imagery it describes techniques used in geologic mapping and mineral and hydrocarbon exploration image analysis used in mine development and petroleum exploitation site evaluation groundwaterdevelopment surface water monitoring geothermal resource exploitation and logistics it also demonstrates how imageryis used to establish environmental baselines monitor land air and water quality maphazards and determine the effects of global warming the many examples of geologic mapping on other planets and the moon highlight how to analyze planetary surface processes map stratigraphy and locate resources the book then examines remote sensing and the public geographic information systems and google earth and how imagery is used by the media in the legal system in public relations and by individuals readers should come away with a good understanding of what is involved in image analysis and interpretation and should be ableto recognize and identify geologic features of interest having read this book they should be able to effectively use imagery in petroleum mining groundwater surface water engineering and environmental projects

new chapters have been added on periosteal reaction lamina dura and cbct chapters extensibly revised to include recent advances and new and better quality photographs added for better understanding of the subject at the end of each chapter a short summary of the topic has been introduced for fast revision of the topics mcqs saqs and laqs are provided in each chapter appendices section contains useful topics like pathogenesis of radiological appearances in orofacial lesions radiological differential diagnosis of lesion periosteal bone reactions and its diagnostic significance glossary and quick review

get a solid grounding in cutting edge cellular technology gain an overall understanding of the constantly evolving spectrum of wireless technologies devices and standards completely revised throughout wireless crash course third edition offers straightforward explanations of all aspects of cellular networks and provides clear information on cellular design and operational concepts learn the fundamentals of cell base stations radio frequency rf technologies microwave radio systems and 3g and 4g lte technologies and discover practical new

applications and mobile data technologies examples photos and illustrations from the field are included in this practical guide coverage includes cellular radio history and development the cell base station basic cellular network design and operation radio frequency rf operation and technologies antennas rf power and sectorization distributed antenna systems das base station elements and rf signal flow 2g and 3g digital wireless technologies cellular generations overview 4g and long term evolution lte microwave radio systems cell site to mtso network connections the mtso core network and network operations center noc personal communication services pcs and current marketplace towers capacity management propagation models and drive testing interconnection to the landline public switched telephone network pstn roaming and intercarrier networking mobile data technologies the business side of wireless mobile applications

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