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this supplement contains worked out solutions to the chapter end problem sets found in digital communication second edition isbn 0 7923 9391 0

this is the solutions manual for the text fundamentals of communication systems isbn 978 0 9928510 0 2 which provides a solid foundation in both analog and digital communications a comprehensive text in electrical engineering with chapters on signals analog communications digital communications information theory analog to digital baseband signalling bandpass signalling block and convolutional codes with an appendix on probability theory to help students without prior knowledge of probability theory every aspect of the communication theory is brought to life via matlab and mathcad simulations together with over 140 video lectures experience sitting next to the author as you explore the theory in this novel text that provides a unique self learning environment 740 pages in the associated text 140 video lectures 340 matlab simulations 340 mathcad simulations 200 problems solved in this solutions manual all the multimedia video lectures and simulations are delivered via the associated app communication systems in the ios and android app stores multimedia content is updated regularly together with the source code pdfs of all the simulations with results are made available to help students easily follow the simulation code refer to appbooke com for the table of contents sample video lectures sample simulations and sample book sections including links to this app that has been designed for an iphone ipad andriod phone or android tablet

a comprehensive introduction to the basic principles design techniques and analytical tools of wireless communications

providing the underlying principles of digital communication and the design techniques of real world systems this textbook prepares senior undergraduate and graduate students for the engineering practices required in industry covering the core concepts including modulation demodulation equalization and channel coding it provides step by step mathematical derivations to aid understanding of background material in addition to describing the basic theory the principles of system and subsystem design are introduced enabling students to visualize the intricate connections between subsystems and understand how each aspect of the design supports the overall goal of achieving reliable communications throughout the book theories are linked to practical applications with over 250 real world examples whilst 370 varied homework problems in three levels of difficulty enhance and extend the text material with this textbook students can understand how digital communication systems operate in the real world learn how to design subsystems and evaluate end to end performance with ease and confidence

the text begins by covering the fundamental concepts and new advances in the field of antenna theory antenna hardware and propagation it further explains the designing of metamaterials microstrip patch antennas for medical applications photonic crystals of millimeter wave

signals for 5g communications dual band miniaturized circular antennas for wireless networks and ultra thin compact flexible antennas for wearable applications this book presents the design and development of s shaped and t shaped microstrip path antennas for industrial applications highlights the use of w shaped and metamaterials microstrip patch antennas for medical applications covers photonic crystals of millimeter wave signals for 5g communications showcases the importance of compact and wideband slot antenna for wireless communications illustrates the design of an ultra thin compact flexible antenna for wearable applications it is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering antenna design and microwave engineering

this third edition has been revised to include expanded coverage of digital communications new topics include spread spectrum systems cellular communication systems global positioning systems gps and a chapter on emerging digital technologies such as sonet isdn and video compression

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