Software Defined Radio: Architectures, Systems and Functions (Hardback)

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John Wiley and Sons Ltd, United Kingdom, 2003. Hardback. Book Condition: New. New.. 244 x 170 mm. Language: English . Brand New Book. Software defined radio (SDR) is a hot topic in the telecommunications field, with regard to wireless technology. It is one of the most important topics of research in the area of mobile and personal communications. SDR is viewed as the enabler of global roaming and a platform for the introduction of new technologies and services into existing live networks. It therefore gives networks a greater flexibility into mobile communications. It bridges the inter disciplinary gap in the field as SDR covers two areas of development, namely software development and digital signal processing and the internet. It extends well beyond the simple re configuration of air interface parameters to cover the whole system from the network to service creation and application development. Reconfigurability entails the pervasive use of software reconfiguration, empowering upgrades or patching of any element of the network and of the services and applications running on it. It cuts across the types of bearer radio systems (Paging to cellular, wireless local area network to microwave, terrestrial to satellite, personal communications to broadcasting) which enable the integration...

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