

# **GSM**

## **Network Switching Subsystem Engineering**



**The NSS Protocol Architecture**

**Alex Fares**

# Gsm Network Switching Subsystem Engineering The Nss Protocol Architecture By Fares Alex 2005 Paperback

**Christian Bettstetter, Hans-Joerg  
V?gel, Christian Hartmann**



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*GSM-Network Switching Subsystem Engineering* Alex Fares,2005-01-11 This book GSM Network Switching Subsystem Engineering gives the main concepts and models of GSM Systems Engineering at core network level It responds to GSM NSS Engineering practice for GSM Technicians Engineers Practitioners Consultants Reserchers and Managers The book has thoroughly covered GSM protocol architecture in the context of GSM Network Switching Subsystem Engineering which includes GSM Evolution GSM Network Architecture The OSI Reference model The A Interface Signalling number 7 Telephony User Part Signalling Connection Control Part SCCP ISDN User Part ISUP Transaction Capabilities Part TCAP Intelligent Network Applications Part INAP Case Studies This book fills the gap between texts in GSM that only treat constitution of protocol architecture in telecommunications engineering in a cursory manner and texts that are too broad in the coverage of GSM Core network engineering It will therefore be good hands on text for GSM Technicians Engineers Practitioners Consultants Reserchers and Managers

*GSM Systems Engineering and Network Management* Alex Fares,2003

*GSM Networks* Gunnar Heine,1999 This practical book provides an extremely comprehensive up to date and easy to understand treatment of the entire GSM network and the signaling methods of its terrestrial interfaces You learn how to analyze network problems what measurements you have to take to solve them and where in a scenario you will find the desired information or parameter The book introduces you to all the interfaces between the GSM subsystems starting with the Abis and Air Interface and continuing on to VLR s HLR s and MSC s within the Network Switching Subsystem NSS You learn about the various signaling standards or methods used in GSM including TCAP and MAP and how to apply this knowledge when working with GSM networks

**GSM Switching, Services and Protocols** Jörg Eberspächer,Hans-Joerg Vogel,Christian Bettstetter,2001-05-15 Since the publication of the first edition the number of GSM subscribers has exploded and it is now deployed in more than 140 countries worldwide Revised and updated GSM Switching Services and Protocols now features the abundant new services and applications that GSM can provide By focusing on the fundamentals of the mobile radio systems it provides an excellent introductory insight to the whole area of GSM cellular radio By providing an easy to follow instructive text this second edition will have insight appeal to telecommunication engineers researchers adn developers The highly graphical approach and numerous illustrations will also make it an indispensable reference for senior undergraduates and postgraduates in electrical and computer engineering Details the GSM phase 2 services including new data and speech services and service platforms such as AMR ASCI CAMEL and EFR Features a brand new chapter on General Packet Radio Service GPRS Contains a completly revised and expanded chapter GSM The story goes on Presents new sections on Wireles s Application Protocol WAP and the migration to UMTS Includes expaned and updated chapters on Logical Channels and Channel Coding

**GSM - Architecture, Protocols and Services** Christian Bettstetter,Hans-Joerg V?gel,Christian Hartmann,2009

**GSM Switching, Services and Protocols** Hans-Jörg Vogel,Christian Bettstetter,2005\*

**GSM - Switching Services and Protocols** Jörg Eberspächer, Hans-Joerg Voegel, 1999-01-12 Global System for Mobile Communication GSM is a new standard set by the European Telecommunications Standard Institute GSM is a cellular system using digital radio access technology for cellular networks and to provide quality radio communication This book offers detailed insight into this topical area of GSM cellular radio Featuring numerous illustrations this work focuses on the fundamentals of the mobile radio system covering the standards and protocols extensively

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