



Personal Communication Systems

Prof. Yuh-Shyan Chen

Department of Computer Science and Information Engineering National Taipei University



Text Book

COMPUTERS/Computer Engineering

\$75.00 USA/\$97.99 CAN/\$50.00 UK

Here's your all-IP network handbook for 3G and beyond

You'll be able to:

Experts forecast a future in which all telephone services will be delivered over the economical, efficient IP network. In this follow-up to Wireless and Mobile Network Architecture, the bestseling guide to whreless network engineering, Yi-Bing Lin and Al-Chun Pang delive into third and beyond generation networks to give you a solid foundation for the 3G/B3G environment. They provide an in-depth examination of how the all-IP core network can be developed and how applications are created, with review questions at the end of every chapter to help you hone your skills.



 Understand mobile core network protocols and applications based on the 3G/B3G all-P core network architecture

 Handle SGSN/GGSN session management functions for IP connection

 Use signaling protocols in non-all-IP networks to offer VoIP services

 Engineer reattime SRNC (Serving Radio Network Controller) ewitching without packet duplication
Support user mobility call setup, and call release using SIP (Session Initiation Protocol)

 Set up cache schemes with fault tolerance to speed up the incoming call setup process with the I-CSCF (Interrogating Call Session Control Function) cache
Write device drivers, information access methods, and application logic independently using Mobile, a mobile service creation platform

YHEING LIN is Chair Professor of the College of Computer Science, and VP of Research and Development, National Chiao Tung University, Tatwan. His research interest includes mobile communications and computing. He is an ACM Fellow, IEEE Fellow, AAAS Fellow, and IEE Fellow.

AI-CHUN PANS is with the Graduate Institute of Networking and Multimedia in the Department of Computer Science and Information Engineering at National Talwan University. Her research Interest Includes wheless voice over IP (VoIP), mobile computing and performance modeling.

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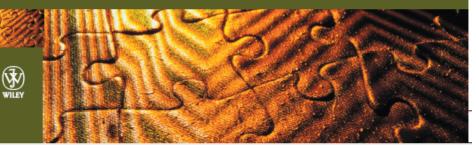
Lin

Pang

Wireless and Mobile All-IP N

Wireless and Mobile All-IP Networks

Yi-Bing Lin Ai-Chun Pang





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- Chapter 3: Session Management for Serving GPRS Support Node Chapter 4: Session Management for Gateway GPRS Support Node Chapter 5: Serving Radio Network Controller Relocation for UMTS Chapter 6: UMTS and cdma2000 Mobile Core Networks

- Chapter 7: UMTS Charging Protocol Chapter 8: Mobile All-IP Network Signaling
- Chapter 9: UMTS Security and Availability Issues
- Chapter 10: VoIP for the Non-All-IP Mobile Networks
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- Chapter 17: A Proxy-based Mobile Service Platform



Score

- Homeworks and one oral presentation
 - **40%**

Midterm and Final examinations

30% and 30%