



## Mobilfunknetze

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Condition: New. Publisher/Verlag: Vieweg+Teubner | Grundlagen, Dienste und Protokolle | Mobilfunknetze: digital, mobil und global | Auf Grund des rasanten Fortschritts in der Kommunikationstechnik hat die funkgesteuerte Kommunikation in den letzten Jahren zunehmend an Bedeutung gewonnen. Dieses Buch führt den Leser in die wesentlichen technischen Grundprinzipien mobiler Funknetze ein. Der Autor gibt eine Übersicht über die in den letzten Jahren eingeführten digitalen Kommunikationsnetze sowie deren Dienste und die verwendeten Protokolle. Dabei wird insbesondere auf das aktuell in Europa implementierte GSM-Netz (D-Netz) eingegangen, welches den Fernsprehdienst herkömmlicher Telefonnetze flächendeckend auf mobile Teilnehmer erweitert. Desweiteren werden aktuelle Themen aus dem internationalen Standardisierungsprozess aufgegriffen, die sich mit zukünftigen Mobilfunksystemen befassen. Dabei spielt die Anbindung an das Internet eine wichtige Rolle. | 1 Einführung.- 1.1 Zellulare Mobilfunknetze.- 1.2 Schnurlose Telefone.- 1.3 Schnurlose Zugangsnetze/Telefonzelle.- 1.4 Mobile Kommunikationsnetze.- 1.5 Bündelfunk-Systeme.- 1.6 Pagingsysteme.- 1.7 Satellitensysteme.- 1.8 UMTS.- 1.9 Geschichte der Kommunikationsnetze.- 2 Grundlagen der Funkübertragung.- 2.1 Frequenzspektrum.- 2.2 Charakteristika der Funkübertragung.- 2.3 Ausbreitung über eine Ebene.- 2.4 Schwund bei Mehrwegeausbreitung.- 2.5 Abschattung.- 2.6 Reflexion und Beugung.- 2.7 Zeitliche Dispersion.- 2.8 Qualität des Mobilfunkkanals.- 3 Grundlagen der Kommunikation.- 3.1 Das OSI-Referenzmodell.- 3.2 Strukturierung der Funkübertragung.- 3.3 Grundlagen zur Fehlersicherung.- 3.4 Grundlagen zum Mehrfachzugriff.- 3.4.1 Frequenzvielfachzugriff.- 3.4.2 Zeitvielfachzugriff.- 3.4.3...



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