

?????, ?a?o, ?????? ?????????????, ?????????????? ???????? (??????, 31. VII 1949). ??
????????????????? ?????????? ? ?????????? ?????????? 1973, ????????????? 1976. ? ?????????? 1979.
??????? ?? ?? ? ?????????????? ?????????? ? ??????????. ??? ?? ?????? ?? ?????????? ?????????? ??
????????? ?????? ?????????? ?? ?? ? ?????????, ??? ?? ?? ?????????????????? ?????????? ?????????? ?????????
????????? ?? ?????????????????? ?????????? (1981--1993). ?????? ??, ?? ?????? ????, ??? ?????????? ?????????? ??
????????????????? ?????????? ? ?????????? (???) 1976--1977. ? ?? ?????????????????? ?????????????????? ? ??? ??????
1986--1987. ?? 1994. ?????????? ?? ?? ?????????????????? ? ??? (??????), ??? ?? ?????????????? ??????????
????????? ?????????? ?????????????????????? ?????????? ? ?????????????????????? ??????. ?? ??????????????????
????????????? ??? ?? ?????????? ?? ??? ?????????? ?????????? ?????????? (????????? ?????????, ?????????? ??????,
????????????????, ?????????? ?????????????? ??????, ?????????????? ??????, ?????????????, ?????????????? ?????? ???.).
??????? ??? ? ?????????????? ?????????? ?? ?????????????? ?? ?????????? ?????????? ??????. ?????? ?????????? ??????
????????? ? ?????????????? ?????????????? ? ?????? ?? ?????????? ?????????????????? ?????????????? ?????????? ?? ???
????????????????? ?????????????? ?????????? ?????????????????????????????????? ?????????? ? ??????????. ?? ?????????? ? ???
????????????????? ?? ?????????? ? ?????????????? ?? ?????????????? ?????????? (????????? ?????????? ?? ?????a????????????
????????????, ?? 1981; ?????????????????????? ?????????? ?? ?????a????????????? ?????????????, ?? 1985). ?????? ??????????
????????? ?? ?? ??? ?????????? ?????????????????? ?????? ?????????? ?? ?????????????????????? ??????????: *Advanced wireless
networks: 4G technology*, New Jersey 2006; *Advanced wireless communications: 4G cognitive broadband
technology*, New Jersey 2007; *Advanced wireless networks: 4G cognitive opportunistic and cooperative
technology*, New Jersey 2009. ??? ?? ?????????????? ?????????? ? *IEEE Journal on Selected Areas in
Communications* ?? ?????????? ??? ? ?????????? ?????????????? ?????????????? ?????????? ?????????? ?????????? ?? ? ?????????
????????????? ? ????????? IEEE. ?????????????????? ?? ? ?????? ?????????????? IEEE ComSoc Chapter-? (????????? IEEE --
????????? ?? ??????????????????????????) ? ?????????.

?????: ?????????, „Advanced frequency hopping modulation for spread spectrum WLAN", *IEEE Journal on
Selected Areas in Communications*, 2000, 18, 1.

?????????????: ?. ??????, ?. ?????? (??.), ?????? 50 ?????? (1948--1998), ???, ?? 2003.

?. ??????

*????? ?? ?????????? ? 1. ????? III ??? ? ?????? ?????????????????? (2018)