

??????, ?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)