?????, ?????, ???????, ?????????????? ???????? (???????, 14. I 1935). ?????????? ?? ?? ??????????? ?????? ????????? ????????? ? ???????? 1960, ??????????? 1965. ? ?????????? 1966. ?? ?????????????? ???????????? ? ????????. ?? 1960. ?? 1961. ????? ?? ??? ??????? ?? ????????? ? *Hamburger Hochbahn ?G* ? ????????, ?????? ?? ??????? ????????? ?????? ???????? ??????? ? ????????. ??????????? ?? ???? ????? ??????, ???? ??? ????????? ?? ????????? ?????????? ?????? ???? ?????? ??????????, ????????? ???????, ?????????? ?? ??????????? ??????? ?? ?????????? ? ??. ?????? ? ???, ??? ?? ????? (1961–1963) ?? ?????? ????????? ????? *Wilbur Smith Associates* (?? ?????, ??????????), ?? ????????? ???????? ??????????. ?? ??????? ?? ???????????? ????????????, ??? ?? ??????? ??????? ??????????? ???????, ??????? ?? 1967, ? ??????? ???????? ?? ?? 1975. ?????????? ????????? ???????? ?? ?????? ?? ???????????? ????????????. ????? ?? ????????????? ?????????? ? ?? ???????????? ?????????? ????????? ????? ???, ?????? ???????????? ? ????? ???????????. ??????? ?? ???????? ????? ? ???????? ???????. ?????????? ?????? ???? ?? ????? *Urban Public Transportation; Systems and Technol?gy* (Prentice-Hall 1981). ????????? ?? ?? ???? ??????, *??????????? ??????* (*????? ??????? ??????: ??????? ? ???????*, ?? 1987). ?? ?????????? ????? ???? ??????? ?? 1994. ???? ? ???.

????: ???????, *Public Transportation: Planning, Operations and ?anagement*, New ?ersey 1979; *Transportation for Livable Cities*, New ?ersey 1999; *UrbanTransit Operations: Planning and ?conomics*, Hoboken – New ?ersey 2005; *UrbanTransit Systems and Technology*, Hoboken – New ?ersey 2007.

??????????: *?????????? ???????? ???? ? ????? – ?? ?? ?? 1996/99?*, ?? – ??? ??????? 1999; ?. ??????, *?????? ?????? ?????????*, ?? 2010.

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*????? ?? ???????? ? ????? II ???? ?????? ????????????? (2013)

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