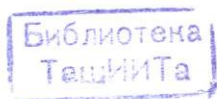


"O'zbekiston temir yo'llari" DATK
Toshkent temir yo'l muhandislari instituti

B.T. Fayziyev, N.V. Julenyov, A.A. Mirodilov

**LOKOMOTIVLARNING TUZILISHI VA ULARNI
LOYIHALASH**

5521100 (5310600) – “Yer usti transport tizimlari”
5140900 (5111000) – Kasb ta’limi (temir yo’l transportida)
bakalavriat yo’nalishidagi -bosqich talabalari uchun
laboratoriya ishlarini bajarishga doir
uslubiy qo’llanma



Toshkent – 2013