DEFINITIONS

**Highway Engineering**

It may be said that the highway engineering is a branch of Traffic engineering that deals with the various phase like development, planning, alignment, highway geometric design and location, highway traffic operation and its control, materials, pavement design, construction and maintenance, economic consideration, finance and administration. ([https://www.qasimshinwari.com/why-and-what-is-highway-engineering/ retrieved January 11, 2019](https://www.qasimshinwari.com/why-and-what-is-highway-engineering/ retrieved January 11, 2019))

**Railway Engineering**

Railway Engineering is a specialist field in Transportation and Civil Engineering. Railways are incredibly complex and expensive systems which are exclusively designed for the efficient passage of trains to transport people, freight and equipment. The incredibly advanced trains which use these rail networks are expensive vehicles and so a Railway Engineer is faced with different challenges to a Highway Engineer. ([http://whatisengineering.com/topic/what-is-railway-engineering/ retrieved January 11, 2019](http://whatisengineering.com/topic/what-is-railway-engineering/ retrieved January 11, 2019))

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**BOOKS located at the Circulation Section 3rd floor**

**SFJ Bldg**


Hurt, Mark (2016) *Highway bridge maintenance : planning and scheduling*. Amsterdam : Elsevier. Eng’g 624.2 H967


**ELECTRONIC BOOKS**

Accessible thru HAU library Webpage

**EBSCO**

• Jim J. Zhao (2017) Bridge Engineering: Design, Rehabilitation, and Maintenance of Modern Highway Bridges
Genesee & Wyoming Inc. retrieved January 11, 2019 from https://www.gwrr.com/

Genesee & Wyoming Inc. is unique in the rail-freight industry. Their railroads offer a short line’s customer focus and entrepreneurial spirit on a global scale, investing in long-term relationships with customers in North America, Australia, Europe and elsewhere.

American Association of Railroad Superintendents retrieved January 11, 2019 from https://supt.org/

The American Association of Railroad Superintendents serves the networking, education and development needs of railroad operations leadership and management of Class 1, regional and short lines, and passenger railroads as well as representatives of government and regulatory agencies.

AARS members gain the benefits of learning best practices, sharing insights and successes with peers, and expanding their network of colleagues in the railroad industry. The association also welcomes railroad suppliers as valued members and partners in the railroad community.


America’s freight railroads operate the safest, most efficient, cost-effective, and environmentally sound freight transportation system in the world — and the Association of American Railroads (AAR) is committed to keeping it that way. Founded in 1934, AAR is the world’s leading railroad policy, research, standard setting, and technology organization that focuses on the safety and productivity of the U.S. freight rail industry. AAR Full members include the major freight railroads in the United States, Canada and Mexico, as well as Amtrak. Affiliates and Associates include non-Class I and commuter railroads, rail supply companies, engineering firms, signal and communications firms, and rail car owners.

American Association of State Highway and transportation Officials retrieved January 11, 2019 from https://www.transportation.org/

AASHTO works to educate the public and key decision makers about the critical role that transportation plays in securing a good quality of life and sound economy for our nation. AASHTO serves as a liaison between state departments of transportation and the Federal government. AASHTO is an international leader in setting technical standards for all phases of highway system development. Standards are issued for design, construction of highways and bridges, materials, and many other technical areas.