

As of various survey connected activities with

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As a classification engineering research develops, empirical data collection methods, such as surveys, are expected to be progressively functional. Survey research has the possible to advance the development of systems engineering research. Applying systems engineering to survey research also has the potential to develop survey research by offering a perspective that can improve the performance of various survey connected activities with a case study survey are examined in the context of systems engineering technical and management processes, methods and tools. However, surveying science is so important because it is used in every aspect of advanced technology and creating sites.

Surveying is a first steps of building anything, the aspects of being used and its instrument tools.

1. Introduction 1. 1

Definition of survey engineering The beginning of civilization without engineering field it is not clear. For that reason, engineering mechanism throughout history of humanity is being used to make life easier. Most of the emperors were using surveying data for leading them to approach his opponents and concur them. Throughout old destinations were being left at today's.

It is illustrate that in most of them most mechanism of surveying skill were implemented. For instance the pyramid of Egypt mostly implemented high development science especially surveying because as it seems most of them have right straight line in all directions. However, surveying science is very important because its use in every feature of advanced technology.

Surveying its elementary steps of building anything, the aspects of being

used and its instrument tools. 2. History of survey engineering History of the first roads and highways are unknown so far.

But when the humans first settled and started to raise animals 9000 years ago, the roads which were used by humans for the animals are the first roads in the history of humanity. The direction of the roads made by the animals became the direction for the properties and lands of the humans. This was the basis of road slope, angle, elevation. The modern roads began with the invention of wheels 5000 B. C. the roads were covered with stones in the country of Rafidai in 3500 B.

C. at 3000 B. C the Egyptians constructed a road that connected river Nile with the pyramids in order to transport the huge rocks for the construction of the pyramids in a fast way. After that the Babylonians constructed the first road made out of cement that connected their capital to the different areas around it. But before all of them the Romanians planned and constructed the basics of roads and pathways, in 400 B.

C they constructed a large net of roads which had 29 main roads with the total distance of 80,000 km. which were used for military purposes from their capital Rome to the other cities and some of those roads still exist. The Romanians used a new way to construct roads in which their roads were in a straight line in order to decrease the distance between places, furthermore they constructed the road over hills and steep places instead of going around them and they stayed away from valley and deep places due to floods and hurricanes. They depended on the modern techniques of that time by covering the roads with layers of heavy and strong rocks for the foundation,

after that they used a layer of wide stones and used some kind of cement to hold the rocks together. Their engineers also knew how to create cross slope to direct the water on the roads to a specific place. At that time Leveling instruments were not available instead they used fire and flames to know if the roads are straight or not, they also used the stars as their own GPS. After the Roman Empire construction of roads stopped in the dark ages in Europe, and construction of roads didn't start until the late 18th century, in which a French engineer started to plan and construct roads using small and broken rocks as a foundation for constructing the roads and after that covering it with smaller stones, this became the basics for constructing highways at the time of Napoleon for the military.

At the same time road constructing developed in England by the two engineers (McAdam and Telford). Telford used large rocks for the foundation and covered it with small rocks. However McAdam used only small rocks for every layer, and his method is still being applied to this day. At the beginning of the 19th century thousands of kilometers of roads were constructed considering the works of Horchow in which the roads were built on a strong foundation. After that elastic tiers were used instead of metal tires by Denlube in 1888, furthermore the roads were covered with Asphalt, this way everything became easy and better, noise pollution and air pollution were reduced largely. In the Middle East and especially Kurdistan, from the times of the Acadians and the Sumerians surveying was used in the areas using old surveying measuring tools.

In the ancient times the Kurds used to build roads, houses, buildings, castles in a way that they still exist or their remaining exist, for example Hawler
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castle, Amedy castle and the roads that lead to the caves. The history of the beginning of surveying in Kurdistan can't be accurately determined. The only thing close to it is from the time of the invasions of ' Othman Empire and the British empire.

After they left a new era began in Kurdistan, they were able to develop in most aspects of life, especially in engineering surveying. Roads and buildings were graphed on paper prior to construction which gave them a more modern look. The roads and buildings that exist now are the result of the works which was done at that time. Surveying had one of the biggest roles in these developments, because the roads and buildings are arranged due to the instruments such as, Level, tape, GPS and Total station.