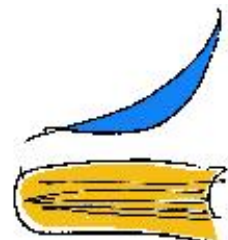


Dynamic Lateral Earth Pressure Coef. (Ke) Report

PEYSANJ 2 **geotechnical engineering software**

Developed & Designed By: Alireza Afkhami (MSc, MCP)
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Company name



Project : N.A.
Client : N.A.
Location : N.A.
Code : N.A.

Column Earth Pressures (static)

Ka=0.333
Kp=7.153

Rankin Earth Pressures (static)

Ka=0.311
Kp=3.196

alpha=5 deg. , beta=85 deg.
delta=19.2 deg. , fi=32 deg.

Values -1 for Kae and Kpe is an indicative of mathematical limitations in formula

Kv=0

For Kh=0 : Kae=0.333 , Kpe=7.153
For Kh=0.1 : Kae=0.411 , Kpe=6.651
For Kh=0.2 : Kae=0.514 , Kpe=6.137
For Kh=0.3 : Kae=0.659 , Kpe=5.605
For Kh=0.4 : Kae=0.891 , Kpe=5.048
For Kh=0.5 : Kae=1.481 , Kpe=4.455
For Kh=0.6 : Kae=-1 , Kpe=3.794
For Kh=0.7 : Kae=-1 , Kpe=2.97
For Kh=0.8 : Kae=-1 , Kpe=-1
For Kh=0.9 : Kae=-1 , Kpe=-1

Kv=0.1

For Kh=0 : Kae=0.333 , Kpe=7.153
For Kh=0.1 : Kae=0.421 , Kpe=6.595
For Kh=0.2 : Kae=0.542 , Kpe=6.02
For Kh=0.3 : Kae=0.723 , Kpe=5.423
For Kh=0.4 : Kae=1.057 , Kpe=4.79
For Kh=0.5 : Kae=-1 , Kpe=4.099
For Kh=0.6 : Kae=-1 , Kpe=3.279
For Kh=0.7 : Kae=-1 , Kpe=-1
For Kh=0.8 : Kae=-1 , Kpe=-1
For Kh=0.9 : Kae=-1 , Kpe=-1

Kv=0.2

For Kh=0 : Kae=0.333 , Kpe=7.153
For Kh=0.1 : Kae=0.434 , Kpe=6.524
For Kh=0.2 : Kae=0.58 , Kpe=5.873
For Kh=0.3 : Kae=0.82 , Kpe=5.19
For Kh=0.4 : Kae=1.481 , Kpe=4.455
For Kh=0.5 : Kae=-1 , Kpe=3.612
For Kh=0.6 : Kae=-1 , Kpe=2.235
For Kh=0.7 : Kae=-1 , Kpe=-1
For Kh=0.8 : Kae=-1 , Kpe=-1
For Kh=0.9 : Kae=-1 , Kpe=-1

Kv=0.3

For Kh=0 : Kae=0.333 , Kpe=7.153
For Kh=0.1 : Kae=0.451 , Kpe=6.432
For Kh=0.2 : Kae=0.635 , Kpe=5.682
For Kh=0.3 : Kae=0.99 , Kpe=4.883
For Kh=0.4 : Kae=-1 , Kpe=3.993
For Kh=0.5 : Kae=-1 , Kpe=2.816
For Kh=0.6 : Kae=-1 , Kpe=-1
For Kh=0.7 : Kae=-1 , Kpe=-1
For Kh=0.8 : Kae=-1 , Kpe=-1
For Kh=0.9 : Kae=-1 , Kpe=-1

Kv=0.4

For Kh=0 : Kae=0.333 , Kpe=7.153
For Kh=0.1 : Kae=0.476 , Kpe=6.31
For Kh=0.2 : Kae=0.723 , Kpe=5.423
For Kh=0.3 : Kae=1.481 , Kpe=4.455
For Kh=0.4 : Kae=-1 , Kpe=3.279
For Kh=0.5 : Kae=-1 , Kpe=-1
For Kh=0.6 : Kae=-1 , Kpe=-1
For Kh=0.7 : Kae=-1 , Kpe=-1
For Kh=0.8 : Kae=-1 , Kpe=-1
For Kh=0.9 : Kae=-1 , Kpe=-1

Kv=0.5



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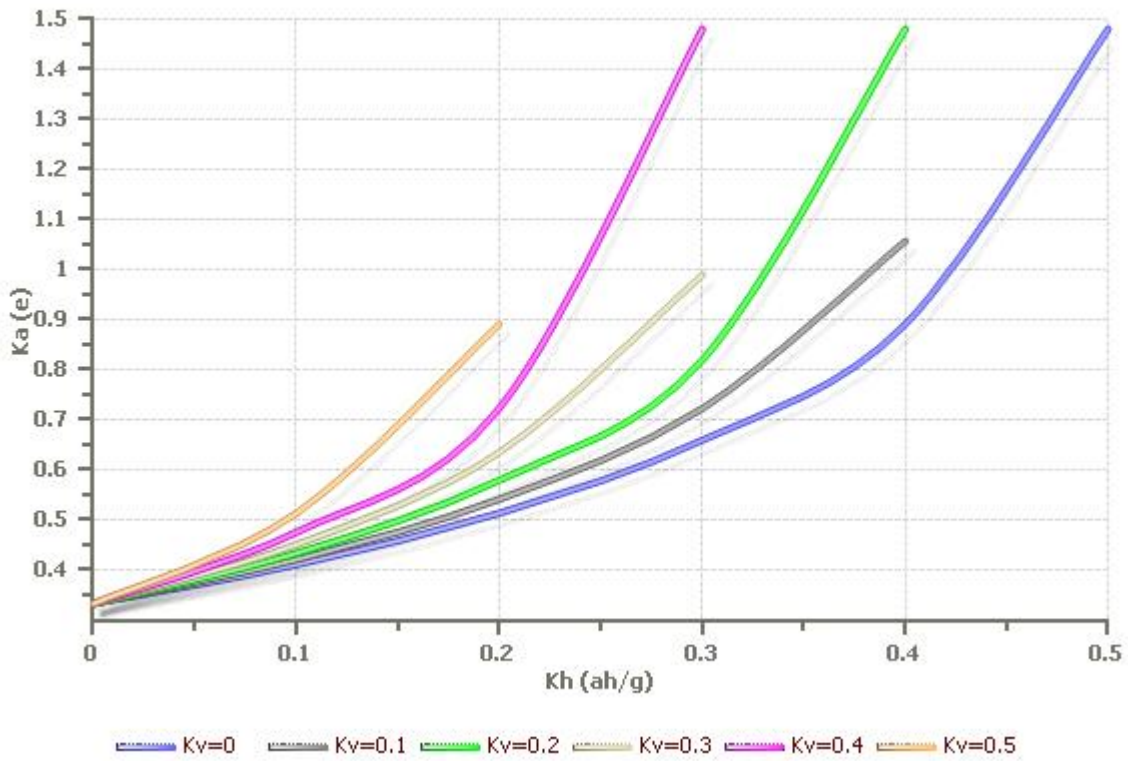


For Kh=0 : Kae=0.333 , Kpe=7.153
For Kh=0.1 : Kae=0.514 , Kpe=6.137
For Kh=0.2 : Kae=0.891 , Kpe=5.048
For Kh=0.3 : Kae=-1 , Kpe=3.794
For Kh=0.4 : Kae=-1 , Kpe=-1
For Kh=0.5 : Kae=-1 , Kpe=-1
For Kh=0.6 : Kae=-1 , Kpe=-1
For Kh=0.7 : Kae=-1 , Kpe=-1
For Kh=0.8 : Kae=-1 , Kpe=-1
For Kh=0.9 : Kae=-1 , Kpe=-1





Mononobe-Okabe K_{Ae}



Mononobe-Okabe K_{Pe}

