

Studi perbandingan analisis langsung dengan analisis sequential pada jembatan cable stayed: studi kasus jembatan a Ruck Chucky Hanging Arc Bridge = Comparative study between direct analysis and sequential analysis for cable stayed bridge: case a Ruck Chucky Hanging Arc Bridge

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Abstrak

[Tulisan ini membahas perilaku struktur jembatan cable stayed dengan studi kasus A Ruck Chucky Hanging Arc Bridge. Hasil yang diperoleh pada penelitian ini yaitu mengevaluasi dan membandingkan perilaku struktur pada saat konstruksi (analisa sequential) dengan analisa struktur jembatan utuh (analisa langsung). Adapun hasil yang diperoleh yaitu gaya dalam kabel pada saat konstruksi, gaya dalam gelagar, tegangan pada masing-masing elemen dan lendutan yang terjadi pada gelagar jembatan. Metode analisa yang digunakan pada saat konstruksi yaitu forward assemblage analysis. Pada saat konstruksi nilai gaya dalam dan lendutan pada gelagar akan berubah menurut tahapannya. Respon struktur juga akan berbeda pada saat konstruksi dengan analisa langsung sehingga masing-masing analisa perlu diperhatikan.

.....This article discusses the behavior of cable stayed bridge structures with case studies A Ruck Chucky Hanging Arc Bridges. The results will be obtained in this study is to evaluated and compare the behavior of structure during construction (sequential analysis) with intact structure analysis (direct analysis). As for the result to be obtained by force in the cable at the time of construction, the style of the girder, stresses and deflections which occur on the bridge girder. The analytical methods used at the time of construction is forward assemblage analysis. At the time of construction, value of the force and deflection in the girder will chance according stages constructions. The respon structure will also be different at the time of construction with direct analysis so that each analysis need to be considred.;This article discusses the behavior of cable stayed bridge structures with case studies A Ruck Chucky Hanging Arc Bridges. The results will be obtained in this study is to evaluated and compare the behavior of structure during construction (sequential analysis) with intact structure analysis (direct analysis). As for the result to be obtained by force in the cable at the time of construction, the style of the girder, stresses and deflections which occur on the bridge girder. The analytical methods used at the time of construction is forward assemblage analysis. At the time of construction, value of the force and deflection in the girder will chance according stages constructions. The respon structure will also be different at the time of construction with direct analysis so that each analysis need to be considred, This article discusses the behavior of cable stayed bridge structures with case studies A Ruck Chucky Hanging Arc Bridges. The results will be obtained in this study is to evaluated and compare the behavior of structure during construction (sequential analysis) with intact structure analysis (direct analysis). As for the result to be obtained by force in the cable at the time of construction, the style of the girder, stresses and deflections which occur on the bridge girder. The analytical methods used at the time of construction is forward assemblage analysis. At the time of construction, value of the force and deflection in the girder will chance according stages constructions. The respon structure will also be different at the time of construction with direct analysis so that each analysis need to be considred]