

**ANALISIS DEFORMASI 3D MENGGUNAKAN DATA GNSS PADA
JEMBATAN PENGGARON RUAS JALAN TOL SEMARANG-UNGARAN**

Tesis

Untuk memenuhi sebagai persyaratan

Mencapai derajat Magister

Program Studi Teknik Geomatika

Kelompok Bidang Ilmu Teknik



Diajukan oleh :

RIZAL ADHI PRATAMA

14/374000/PTK/9997

Kepada

PROGRAM PASCASARJANA FAKULTAS TEKNIK

UNIVERSITAS GADJAH MADA

YOGYAKARTA

2016

**3D DEFORMATION ANALYSIS USING GNSS DATA ON PENGGARON
BRIDGE OF SEMARANG-UNGERAN TOLL ROAD SECTION**

POSTGRADUATE THESIS



By :

RIZAL ADHI PRATAMA

14/374000/PTK/9997

To

**GEOMATIC ENGINEERING STUDY PROGRAM
POSTGRADUATE PROGRAM FACULTY OF ENGINEERING
GADJAH MADA UNIVERSITY
YOGYAKARTA**

2016

**3D DEFORMATION ANALYSIS USING GNSS DATA ON PENGGARON
BRIDGE OF SEMARANG-UNGARAN TOLL ROAD SECTION**

POSTGRADUATE THESIS

submitted as a partial fulfillment of the requirements for obtaining the degree of
Magister of Engineering in Geomatics Engineering Study Program



By :

RIZAL ADHI PRATAMA

14/374000/PTK/9997

To

**GEOMATIC ENGINEERING STUDY PROGRAM
POSTGRADUATE PROGRAM FACULTY OF ENGINEERING
GADJAH MADA UNIVERSITY
YOGYAKARTA**

2016