



In the name of the Law  
The Rector of the Politecnico  
Prof. Dr. Eng. Giovanni Del Tin

in accordance with art. 169 of R.D. no. 1592 of 31 August 1933;  
in accordance with the resolution of 18 June 2004, with which  
the Council of the 1<sup>st</sup> Faculty of Engineering proposed  
the awarding of a Doctorate Honoris Causa in Engineering to  
Benoit B.Mandelbrot, born in Warsaw (Poland) on 20 November 1924,

with the following motivation:

*Benoit B.Mandelbrot,  
founder of Fractal Geometry and pioneer of Complex Systems Mathematics,  
is a figure of outstanding achievement in all the areas of Applied Science.  
In the field of Civil Engineering, he has made substantial contributions to the sectors  
of Geomorphology, Orography, Topography and Solid Mechanics.  
In particular, through the identification of the fractal nature of fracture surfaces,  
he paved the way for the attainment of fundamental results  
such as the definition of the role of microstructural disorder  
and the scale effects on the fracture energy of materials*

and having taken note of the approval of the aforementioned resolution  
by the Minister of Education, the University and Research

confers on

**Benoit B. Mandelbrot**

**the Doctorate Honoris Causa in  
Civil Engineering**

This Academic Degree is granted to all legal effects and purposes.

Given in Turin on 21 March 2005

The Rector  
(Giovanni Del Tin)

The Administrative Director  
(Anna Maria Gaibisso)

The Dean of the Faculty  
(Francesco Profumo)