

Interaction Between Interconnected and Isolated Grounding Systems: A Case Study of Transferred Potentials

E. Faleiro, F. J. Pazos, G. Asensio, G. Denche, D. García, and J. Moreno

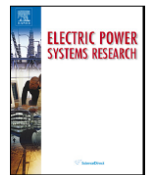
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Modelling and simulation of the grounding system of a class of power transmission line towers involving inhomogeneous conductive media



E. Faleiro^{a,*}, G. Asensio^a, J. Moreno^a, P. Simón^b, G. Denche^a, D. García^a

^a Polytechnic University of Madrid (UPM), Escuela Técnica Superior de Ingeniería y Diseño Industrial (ETSIDI), Ronda de Valencia 3, 28012 Madrid, Spain
^b LCOE Laboratory, Calle Diesel 13. P.I. El Lomo, 28906 Madrid, Spain

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Improved measurements of the apparent resistivity for small depths in Vertical Electrical Soundings



E. Faleiro^{*}, G. Asensio, J. Moreno

Polytechnic University of Madrid (UPM), Escuela Técnica Superior de Ingeniería y Diseño Industrial (ETSIDI), Ronda de Valencia 3, 28012 Madrid, Spain

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Eduardo Faleiro¹ , Gabriel Asensio¹, Jorge Moreno¹


¹Polytechnic University of Madrid (UPM), Escuela Técnica Superior de Ingeniería y Diseño Industrial (ETSIDI), Ronda de Valencia 3, 28012 Madrid, Spain

 E-mail: eduardo.faleiro@upm.es



Article

Wenner Soundings for Apparent Resistivity Measurements at Small Depths Using a Set of Unequal Bare Electrodes: Selected Case Studies

Eduardo Faleiro * , Gabriel Asensio, Gregorio Denche, Daniel Garcia and Jorge Moreno

Departamento de Ingeniería Eléctrica Electrónica, Automática y Física Aplicada, Escuela Técnica Superior de Ingeniería y Diseño Industrial, Universidad Politécnica de Madrid, 28012 Madrid, Spain; gabriel.asensio@upm.es (G.A.); gdenche@ree.es (G.D.); daniel.gpuertas@upm.es (D.G.); jorge.moreno@upm.es (J.M.)

* Correspondence: eduardo.faleiro@upm.es; Tel.: +34-91-336-7686

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Article

Estimation of an Upper Bound to the Value of the Step Potentials in Two-Layered Soils from Grounding Resistance Measurements

Jorge Moreno ¹, Pascual Simon ², Eduardo Faleiro ^{1,*}, Gabriel Asensio ¹
and Jose Antonio Fernandez ³

¹ Polytechnic University of Madrid (UPM), Escuela Técnica Superior de Ingeniería y Diseño Industrial (ETSIDI), Ronda de Valencia 3, 28012 Madrid, Spain; jorge.moreno@upm.es (J.M.); gabriel.asensio@upm.es (G.A.)

² LCOE Laboratory, Calle Diesel 13. P.I. El Lomo, 28906 Madrid, Spain; psimon@ffii.es

³ Union Fenosa Distribución (UFD). Avenida San Luis 77, 28033 Madrid, Spain; jafernandez@ufd.es

* Correspondence: eduardo.faleiro@upm.es

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Technical Note

An Estimator of the Resistance of Large Grounding Electrodes from Its Geometric Characterization

Gregorio Denche, Eduardo Faleiro * , Gabriel Asensio  and Jorge Moreno

Escuela Técnica Superior de Ingeniería y Diseño Industrial (ETSIDI), Polytechnic University of Madrid (UPM), Ronda de Valencia 3, 28012 Madrid, Spain; gregorio.denche@upm.es (G.D.); gabriel.asensio@upm.es (G.A.); jorge.moreno@upm.es (J.M.)

* Correspondence: eduardo.faleiro@upm.es

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Functionally Graded Multilayered Soil Models, an Alternative to Modeling the Soil Electrical Resistivity for Computing the Grounding Resistance

R. PARAMO, E. FALEIRO^{ID}, G. ASENSIO^{ID}, AND J. MORENO

Departamento IEEF, Escuela Técnica Superior de Ingeniería y Diseño Industrial, Universidad Politécnica de Madrid, 28012 Madrid, Spain

Corresponding author: E. Faleiro (eduardo.faleiro@upm.es)



Article

Grounding Electrodes with Internal Resistance: Application to Feasibility Study of the Driven-Rod Method for Modeling the Soil Electrical Resistivity Profile

Gregorio Denche, Eduardo Faleiro^{*ID}, Gabriel Asensio^{ID} and Jorge Moreno

Escuela Técnica Superior de Ingeniería y Diseño Industrial, Universidad Politécnica de Madrid, 28012 Madrid, Spain; gregorio.denche@upm.es (G.D.); gabriel.asensio@upm.es (G.A.); jorge.moreno@upm.es (J.M.)

* Correspondence: eduardo.faleiro@upm.es

Featured Application: The model proposed in the paper can be applied to any electrode to assess the impact of its internal resistance on the main parameters that define a grounding system.

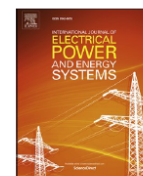
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A fast method to compute the grounding resistance of a coated electrode using the coated electrode equivalent radius

E. Faleiro^{*}, G. Asensio, G. Denche, J. Moreno

Escuela Técnica Superior de Ingeniería y Diseño Industrial (E.T.S.I.D.I.), Universidad Politécnica de Madrid (U.P.M.), Ronda de Valencia 3, 28012 Madrid, Spain



Article

A Fast Calculation of Partially Corroded, Grounding-Resistive Electrode Electrical Parameters

Gregorio Denche, Eduardo Faleiro *, Gabriel Asensio  and Jorge Moreno


Escuela Técnica Superior de Ingeniería y Diseño Industrial, Universidad Politécnica de Madrid, 28012 Madrid, Spain

* Correspondence: eduardo.faleiro@upm.es

Featured Application: The proposed model can be applied to the assessment of the electrical parameters of non-perfect conducting grounding electrodes that are partially affected by corrosion.

Article

Electromagnetic Fields from Cloud-to-Cloud Horizontal Lightning Channel on Perfect Conducting Soil: Induced Potentials in Flying Aircraft

Gabriel Asensio , Eduardo Faleiro *, Jorge Moreno and Gregorio Denche 

Escuela Técnica Superior de Ingeniería y Diseño Industrial, Universidad Politécnica de Madrid, 28012 Madrid, Spain; gabriel.asensio@upm.es (G.A.); jorge.moreno@upm.es (J.M.); gregorio.denche@upm.es (G.D.)

* Correspondence: eduardo.faleiro@upm.es

Featured Application: The proposed model can be used to evaluate the effect of a cloud-to-cloud lightning strike on a power transmission line or any metal structure on the ground, such as a lightning rod or airplane in flight.