

How to implement distance measurement function in relay protection



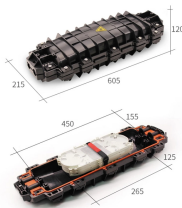
How to implement distance measurement function in relay protection



I've opened VS Code's settings.json file many times, and each time I forgot where it was. If I go to File → Preferences → Settings, I get the graphical settings interface (screenshot). I want to open



Since the impedance of a transmission circuit is relative to its length, for distance measure it is suitable to use a relay able to measure the impedance of a circuit up to a present point (the ...



Here the message contains single quotation mark, which is same as the quotation used in JSON. What I do is fill up a string from user inputs such as message. So, I need to escape those kind of special ...



We will first review the basic principles of distance protection. We will present general rules of implementing distance comparators (phase and amplitude comparators), and explain electro ...



Of course, the correct MIME media type for JSON is application/json, but it's necessary to realize what type of data is expected in your application. For example, I use Java Ext GWT and the server ...



The paper explains why distance protection applications in weak systems face additional challenges, provides a brief explanation of typical approaches to distance element design that alleviate some of ...



These relays are called as distance protection relays. The relay operation is purely depending upon the magnitude of the circuit current and voltage, typically the ratio of the circuit to be protected is calculated.



It examines the various fault configurations to determine exactly the impedance seen by the six functions under different fault conditions. The computation of distance relay settings is dependent on the type ...



This includes fundamentals of measuring distance to fault based on electrical signals from one end of the circuit; the principles of amplitude and phase comparators to implement a distance...



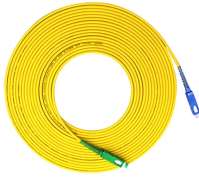
Concept 1: Measuring "Distance" with Ohm's Law
A distance relay doesn't use GPS or radar to measure physical distance. It uses pure electrical math.



Note: This won't prettify the json representation. To do so, one can previously rely on an external service such as jsbeautifier and paste the prettified result in the wiki.



Here I'm creating a JavaScript object and converting it to a JSON string, but `JSON.stringify` returns "[object Object]" in this case, instead of displaying the contents of the object.



JSON (JavaScript Object Notation) is a lightweight format that is used for data interchanging. It is based on a subset of JavaScript language (the way objects are built in JavaScript). As stated in the MDN, ...



963 The `org.json` library is easy to use. Just remember (while casting or using methods like `getJSONObject` and `getJSONArray`) that in JSON notation [...] represents an array, so library will ...



Unlike traditional overcurrent relays which trip in any condition resulting in excessive current, offering no speed or accuracy, distance relays measure the impedance between the relay and the fault point, ...



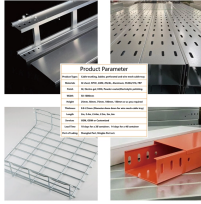
The theoretical background of the distance protection function will be explained. This paper also covers the definition of the necessary Test Object settings as well as the Hardware ...



The first part of this article series delved into the fundamentals of overcurrent protection, exploring the intricacies of relay coordination, the impact of source impedance, and the application of ...



The OP explicitly asked for writing it to a file, in which case `json.dump` is the way to go.



Distance protection is a core protection method for high-voltage transmission lines, implemented using distance protection relays that determine fault location by measuring the ...



JSON is used a lot for application data and configuration settings, so comments are necessary now. The "official spec" is a nice idea, but it's insufficient and obsolete, so too bad. Minify your JSON if you're ...



Do standards or best practices exist for structuring JSON responses from an API? Obviously, every application's data is different, so that much I'm not concerned with, but rather the "response

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.indzawo.co.za>

Email: sales@indzawo.co.za

Phone: +27 71 296 8473

Address: 22 Quantum Street, Midrand, 1685, Gauteng, South Africa

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