

**KARAKTERISASI ALAT UKUR LITERASI SAINTIFIK  
KELISTRIKAN MENGGUNAKAN ANALISIS PARAMETER  
LOGISTIK**

**TESIS**

Diajukan untuk memenuhi sebagian dari syarat memperoleh gelar  
Magister Pendidikan Jurusan Pendidikan Fisika



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MENGUNAKAN ANALISIS PARAMETER LOGISTIK**

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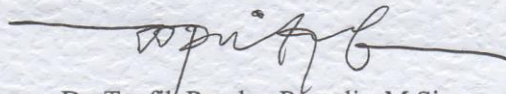
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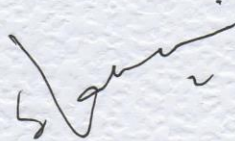
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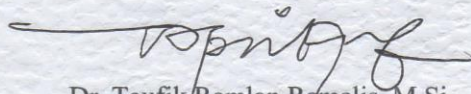


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## ABSTRAK

### KARAKTERISASI ALAT UKUR LITERASI SAINTIFIK KELISTRIKAN MENGUNAKAN ANALISIS PARAMETER LOGISTIK

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Penelitian dilakukan untuk mengembangkan alat ukur literasi saintifik siswa pada materi kelistrikan. Hasil validasi konstruksi butir soal oleh ahli Fisika diperoleh 20 butir soal pilihan ganda dan 12 butir pernyataan angket memenuhi standar *Content Validity Ratio (CVR)*. Butir soal yang telah memenuhi standar CVR diujikan kepada 315 siswa di 3 SMA di kota Bandung. Hasil karakterisasi butir soal menggunakan analisis parameter logistik teridentifikasi butir soal memiliki 3 parameter logistik yaitu: daya pembeda (a), tingkat kesuliyannya (b) dan probabilitas tebakan (c). Perpotongan kurva Fungsi Informasi tes dengan kurva *Standard Error Measurement (SEM)* menunjukkan bahwa alat ukur literasi saintifik kelistrikan paling cocok digunakan kepada siswa pada rentang kemampuan rendah hingga tinggi.

Kata kunci : Tes literasi saintifik, parameter logistik, kelistrikan

## **ABSTRACT**

### **CHARACTERIZATION OF STUDENTS' ELECTRICITY SAINTEFIC LITERCY TEST USING PARAMETER LOGISTIC ANALYSIS**

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The study was conducted to develop measurement tools to assess students' scientific literacy on electricity topic. Constuct of items test validated by Physics experts obtained 20 multiple choice item test and 12 item questionnaire fulfilling the Content Validity Ratio (CVR) standard. Items with CVR standards were tested on 315 high school students in 3 high schools in Bandung. The results of the characterization of the items using logistic parameter analysis identified the item has 3 parameters logistik, namely: difficulty (a), discrimination (b) and parameter guessing (c). The intersection of the test Information function curve and Standard Error Measurment (SEM) function curve shows that the test is convenient to measure students' electricity saintific literacy with ability range from low to high.

Keywords: Scientific literacy test, parameter logistic, electricity

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