PROGRAMA DE INICIACIÓN TECNOLÓGICA PIT 2025

Composición de Textos y Gráficos con LaTeX

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- L. Lamport. Lambert. Lambe

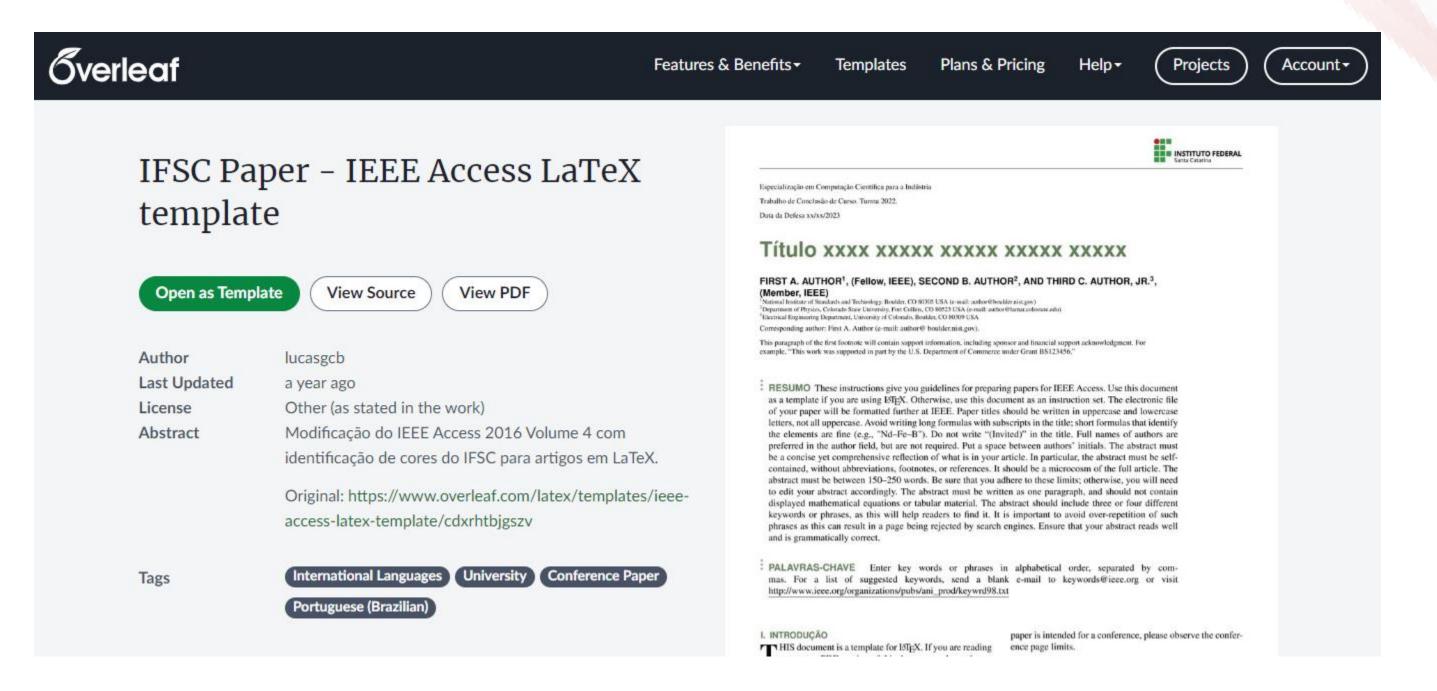
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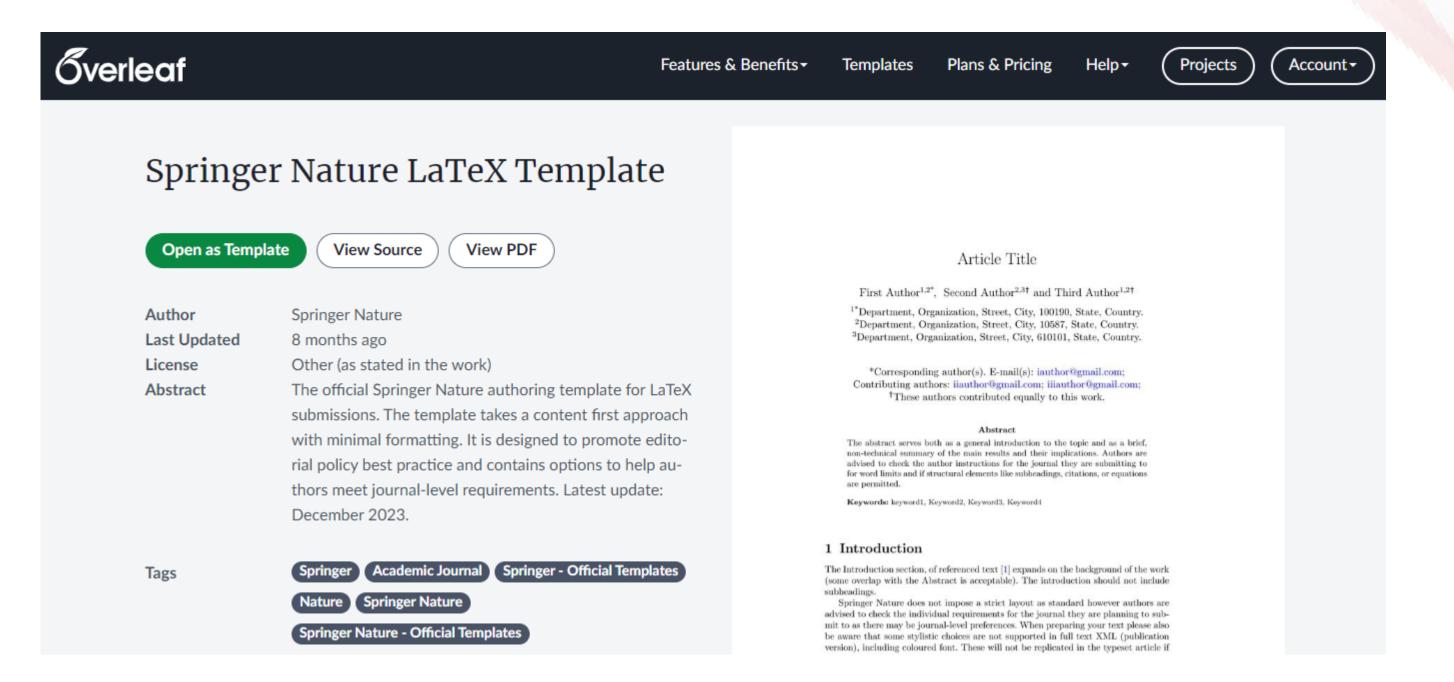


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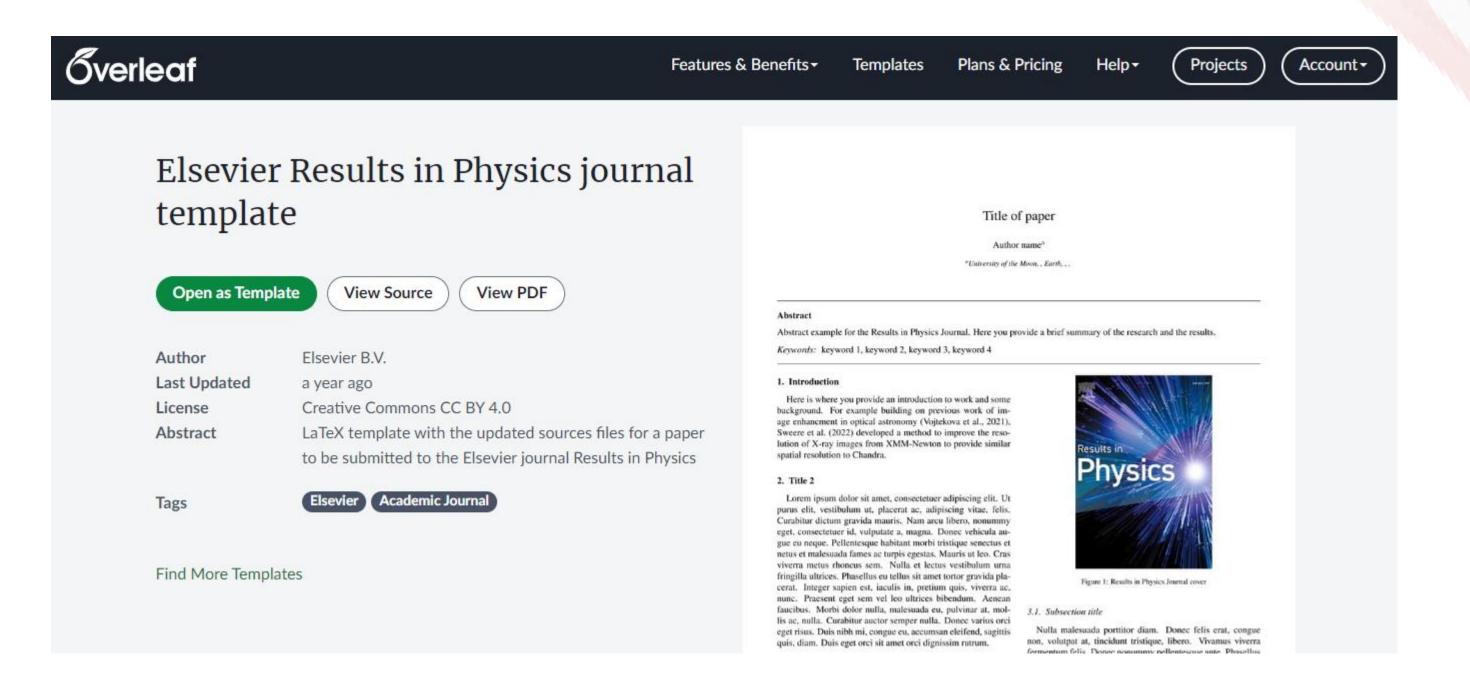
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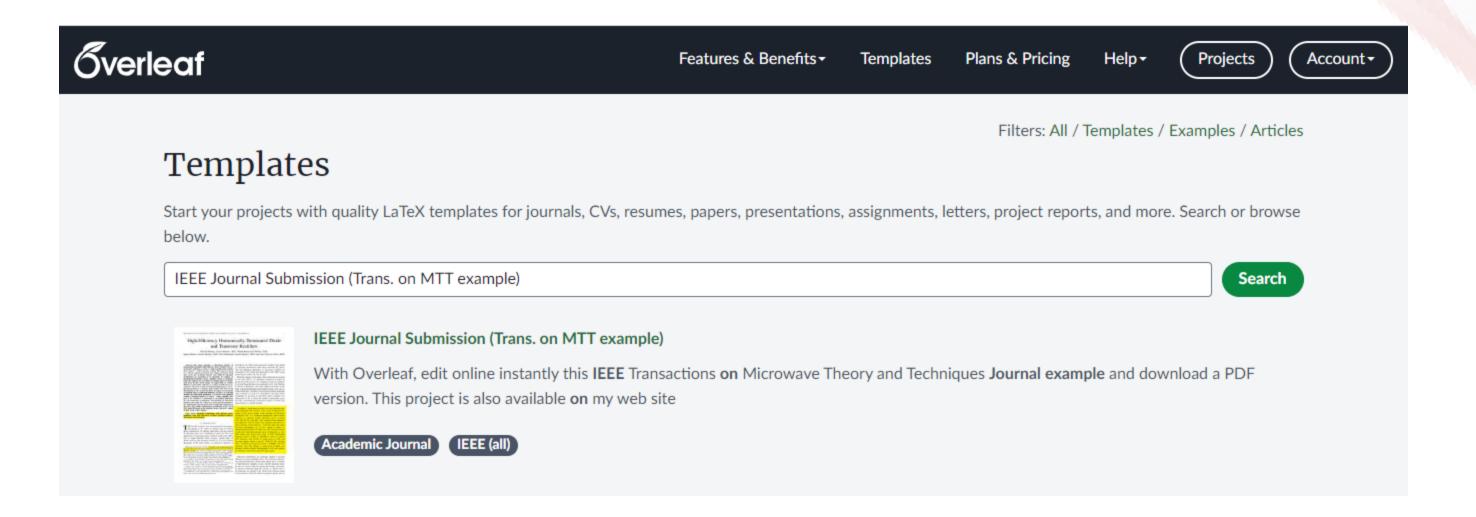
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High-Efficiency Harmonically-Terminated Diode and Transistor Rectifiers

Michael Roberg, Student Member, IEEE, Tibault Reveyrand, Member, IEEE, Ignacio Ramos, Student Member, IEEE, Erez Falkenstein, Student Member, IEEE, and Zoya Popović, Fellow, IEEE

and a class-F⁻¹ GaN transistor rectifier. The theory is based arise across the rectifying element when different harmonic diode-based rectifiers [5], [6], [7], [8]. terminations are presented at its terminals. An analogy to harmonically-terminated power amplifier theory is discussed. From the analysis, one can obtain an optimal value for the DC load given the RF circuit design. An upper limit on rectifier efficiency is derived for each case as a function of the device onpull measurement of a Schottky diode rectifier with short-circuit field, continued publishing diode-based rectifier work and interminations at the second and third harmonic are presented.

A maximal device rectification efficiency of 72.8% at 2.45 GHz matches the theoretical prediction. A 2.14 GHz GaN pHEMT rectifier is designed based on a class-F⁻¹ power amplifier. The gate of the transistor is terminated in an optimal impedance for self-synchronous rectification. Measurements of conversion the topic of harmonically terminated rectifiers, of which they efficiency and output DC voltage for varying gate RF impedance, DC load and gate bias are shown with varying input RF power at the drain. The rectifier demonstrates an efficiency of 85% for a 10 W input RF power at the transistor drain, with a DC voltage of 30 V across a 98 \(\) resistor.

1. Introduction

power transmission for lighting applications and the method of obtaining direct from alternating current [1]. The main application of microwave power rectifiers in the early 1900's transistor class-E rectifier at 700MHz is shown to achieve was in signal detection where crystals, vacuum tubes or 85% efficiency with 58 mW of output power in [20], and diodes served as the nonlinear element [2], [3]. An excellent

Abstract—This paper presents a theoretical analysis of harmonically-terminated high-efficiency power rectifiers and experimental validation on a class-C single Schottky-diode rectifier and a class-F⁻¹ GaN transistor rectifier. The theory is based on a Fourier analysis of current and voltage waveforms which extraction of DC power was performed in the 1960's using

Renewed interest in free-space power transmission occurred in the early 1970's. An interesting microwave rectifier for production of DC power or low-frequency AC power called the Cyclotron-Wave Rectifier was introduced in [9], [10]. William resistance. Measured results from fundamental frequency source- C. Brown of Raytheon, one of the original researchers in the troduced the term "rectenna" for a receiving antenna integrated with a rectifier [11], [12], [13]. Around the same time, power combining for an array of microwave power rectifiers was seem to hint at a class-F rectifier.

A number of diode-based rectifiers have been demonstrated many integrated with antennas, with a good comparison pre-Index Terms—harmonic terminations, high efficiency power amplifiers, load pull, microwave rectifiers, nonlinear analysis, rectification [16], [17]. Additional applications where rectifier efficiency is important include microwave power recycling [18], and DC-DC converters with extremely high frequency switching [19], [20]. In many of the reported microwave rec THE first RF rectifiers were demonstrated in experiments has been investigated, e.g. [21],[22], mainly to reduce re-radiated harmonic power. To date, very few transistor rectifier tifiers, filtering of the harmonics at both the input and output circuits have been demonstrated, most at frequencies at least three times lower than in this work. A UHF synchronous

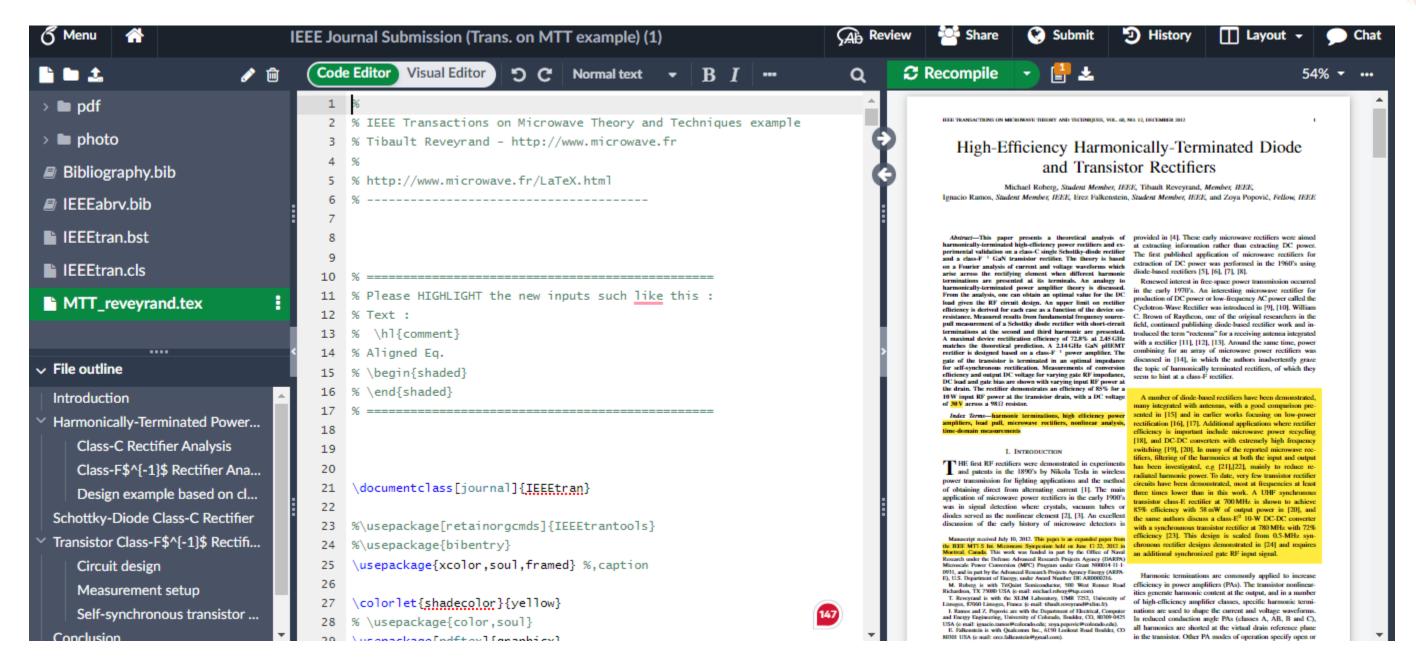
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