

عنوان مقاله:

Effect of moisture content, cutting speed, bevel angle and internode position on Cutting energy characteristics of Broomcorn stalk

محل انتشار:

چهارمین کنفرانس معماری، مهندسی عمران، کشاورزی و محیط زیست (سال: 1398)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Hossein Ghaffari - Assistant Professor, Department of biosystems engineering, University of Tabriz. Iran

Khosro Mohammadi Ghermezgoli - Assistant Professor, Department of biosystems engineering, University of Tabriz. Iran

Mehdi Shirazi Sheikhdarabadi - MSc Graduated Student, Department of Biosystems Engineering, University of Urmia, Urmia, Iran

Neman Marghoub - MSc Graduated Student, Department of Biosystems Engineering, University of Tabriz, Tabriz, Iran

خلاصه مقاله:

The cutting of stalks is an important process in sorghum harvesting, forage harvesting, weeding, stalk shredding, and down lamowing. Experiments were conducted to study the effect of moisture content, cutting speed, bevel angle and internode position on cutting energy of three genotypes of broomcorn stalk. The results showed that the amount of cutting energy was increased by increasing moisture content and bevel angle. The specific cutting energy obtained by dividing cutting energy into the cross-sectional area of the stalk. The ANOVA results of specific cutting energy showed that all main effects were significant at 1% probability level.

کلمات کلیدی:

broomcorn, pendulum, specific cutting energy

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1000418>

