

1. Record Nr.	UNISA996475872403316
Autore	Vogel Burkhard
Titolo	Slopes and levels : spice models to simulate vintage op-amp noise / / Burkhard Vogel
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2022] ©2022
ISBN	9783030994433 9783030994426
Descrizione fisica	1 online resource (343 pages)
Disciplina	620.2
Soggetti	Acoustical engineering Operational amplifiers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.

2. Record Nr.	UNINA9910629588503321
Autore	Brodie Graham
Titolo	Microwave Based Weed Control and Soil Treatment / / Graham Brodie [and four others]
Pubbl/distr/stampa	Poland, Warsaw : , : De Gruyter Open Ltd., , [2018] ©2018
Descrizione fisica	1 online resource (v, 179 pages) : illustrations
Disciplina	632.5
Soggetti	Weeds - Control Herbicide resistance
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Herbicide resistance has become an important constraint on modern agricultural practices. An alarming increase in weed biotypes that are resistant to herbicides has also been reported. Opportunity exists for a novel weed management technology, which is also compatible with no-till agricultural practices. Microwave heating can kill both emerged weed plants and weed seeds in the soil. When the intensity of the microwave fields is moderate, plants, which have already emerged, are susceptible to microwave treatment. If the microwave field is intense enough, very rapid volumetric heating and some thermal runaway in the plant structures cause micro-steam explosions in the plant cells, which rupture the plant structures, leading to death. Soil treatment requires significantly more energy; however, there are secondary benefits for crops growing in microwave treated soil. These include: significant reduction of the dormant weed seed bank; significant reduction of nematode populations; significant reduction of fungal populations; better availability of indigenous nitrogen for the plants; more rapid humification; and significant increases in crop growth and yield. Microwave weed management and soil treatment is not restricted by weather conditions; therefore, the technology may offer some timeliness and environmental benefits, which are yet to be quantified in</p>

a cropping system.

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