

1. Record Nr.	UNINA9910824748503321
Autore	Chen Jianxun
Titolo	Development of soft particle code (SPARC) // Chien-Hsun Chen
Pubbl/distr/stampa	Berlin : , : Logos, , [2015]
ISBN	3-8325-9462-0
Descrizione fisica	1 online resource (185 pages) : illustrations
Collana	Advances in Geotechnical Engineering and Tunneling ; ; 21
Disciplina	624.151
Soggetti	Geotechnical engineering Granular materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	PublicationDate: 20150830
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	Long description: This work aims at developing a numerical simulation method, Soft PARTicle Code (SPARC). The term textitsoft emphasizes that no boundaries between particles are defined and every particle possesses a support consisting of a set of adjacent particles. The polynomial interpolation/approximation method is utilized for the evaluation of spatial derivatives using the information carried by particles in supports. The system of equations consisting of spatial derivatives is solved using an iterative nonlinear solver and the computation of the Jacobian matrix is parallelized. The simulations of laboratory tests have been carried out to show the applications and limitations of the current version of SPARC. In addition to the simulations, laboratory (zig-zag) model tests using fine sand were carried out, in which the cyclic tilt of a retaining wall induces a peculiar motion in the backfill (sand), with closed trajectories (eddies).

2. Record Nr.	UNINA9910298516303321
Autore	Zhu Ying
Titolo	Transforming Rural Communities in China and Beyond : Community Entrepreneurship and Enterprises, Infrastructure Development and Investment Modes // by Ying Zhu, Hong Lan, David A. Ness, Ke Xing, Kris Schneider, Seung-Hee Lee, Jing Ge
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-11319-4
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (203 p.)
Disciplina	330 333.7 338.927 620 658.4092 658421 658514
Soggetti	Leadership Entrepreneurship Environmental economics Management Industrial management Sustainable development Engineering Business Strategy/Leadership Environmental Economics Innovation/Technology Management Sustainable Development Engineering, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.

Nota di contenuto

Chapter 1 Introduction -- Chapter 2 Rural community development and the role of social entrepreneurs -- Chapter 3 Market-based financing mechanism and design of voluntary trading platform for China forest sinks -- Chapter 4 Carbon trade, forestry land rights and farmers' livelihood in rural community in China -- Chapter 5 Alternative energy development in China rural communities -- Chapter 6 Transforming rural communities by synergistic, integrated and inclusive planning of services and infrastructure -- Chapter 7 Key characteristics of rural ICT service innovation: a case analysis of ICT-enabled rural financial services in China -- Chapter 8 Towards An integrated model.

Sommario/riassunto

This book represents one of the first attempts by a multidisciplinary research team, encompassing the social sciences, business, architecture and planning, engineering, and finance and economics, to help rural communities discover sustainable and self-reliant paths to development and transformation. The opening chapter outlines the background of the research, its importance in the context of China and other countries, the rationale for choosing the case study communities in rural China, and the composition of the research team. Chapter 2 explores key issues in the role of social entrepreneurship and leadership in rural community development. Chapter 3 analyses a green platform for a pilot transaction of China forest carbon sinks led by the Huadong Forestry Exchange. The fourth chapter examines carbon trade, forestry land rights, and the livelihoods of farmers in rural Chinese communities. Chapter 5 explores alternative energy development in rural Chinese communities, where the poor are often disproportionately dependent on fuel wood and solid biomass, causing environmental degradation, reduced productivity and the decline of income generating opportunities. Chapter 6 examines and tests the proposition that stronger communities will result from 'connected up', holistic, synergistic and inclusive planning of services and supporting infrastructure. Chapter 7 analyzes information and communications technology (ICT) based service innovations for supporting rural community enterprises. Chapter 8 highlights key elements of stronger rural communities, drawing together the themes and proposals of preceding chapters and constructing an integrated model. The authors demonstrate that interconnected community enterprises based on clean forest products, forest carbon and ecotourism can be underpinned by local infrastructure enterprises such as renewable energy, water, waste management, ICT and transport, and financial mechanisms like carbon finance, all involving skills development, leadership and social entrepreneurship coupled with corporate and investment partnerships. Such interconnected approaches are expected to generate increased employment and prosperity, improve social livelihoods, and benefit the environment.
