



Engineering and Sustainable Community Development (Synthesis Lectures on Engineers, Technology and Society)

Juan Lucena, Jen Schneider, Jon A. Leydens

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This book, *Engineering and Sustainable Community Development*, presents an overview of engineering as it relates to humanitarian engineering, service learning engineering, or engineering for community development, often called sustainable community development (SCD). The topics covered include a history of engineers and development, the problems of using industry-based practices when designing for communities, how engineers can prepare to work with communities, and listening in community development. It also includes two case studies -- one of engineers developing a windmill for a community in India, and a second of an engineer "mapping communities" in Honduras to empower people to use water effectively -- and student perspectives and experiences on one curricular model dealing with community development. Table of Contents: Introduction / Engineers and Development: From Empires to Sustainable Development / Why Design for Industry Will Not Work as Design for Community / Engineering with Community / Listening to Community / ESCD Case Study 1: Sika Dhari's Windmill / ESCD Case Study 2: Building Organizations and Mapping Communities in Honduras / Students' Perspectives on ESCD: A Course Model / Beyond Engineers and Community: A Path Forward

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