

5-2014

Purdue Libraries Publishing Division: Publishing Spectrums

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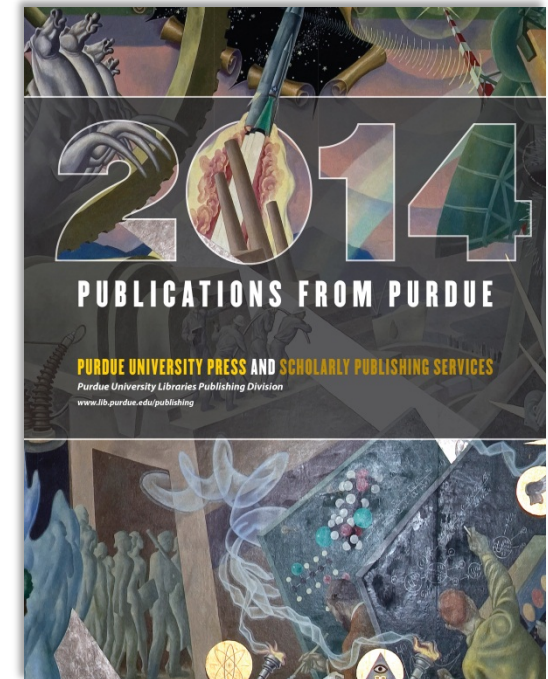
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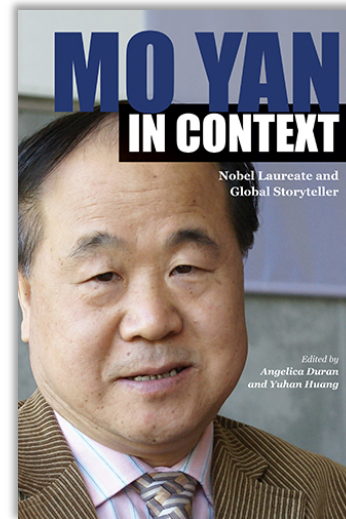
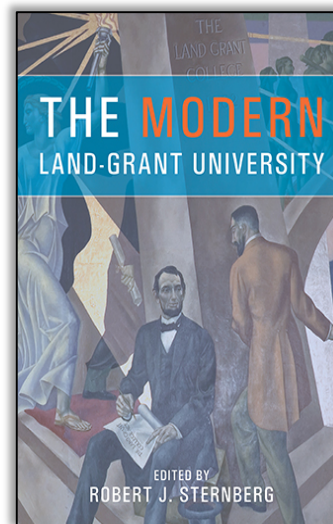
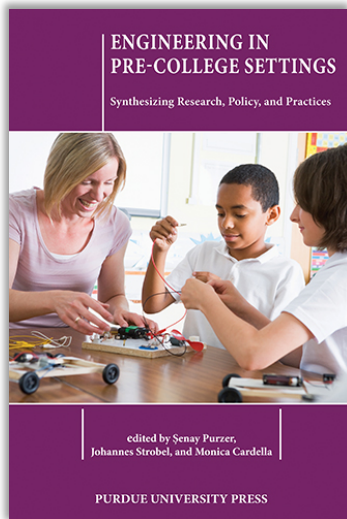
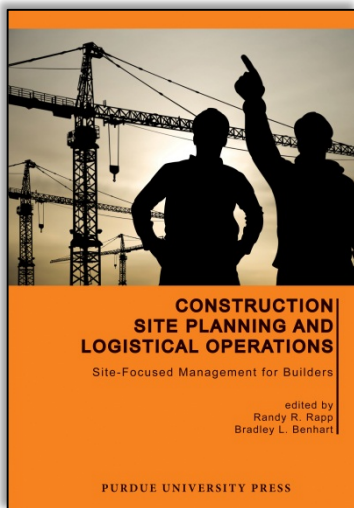
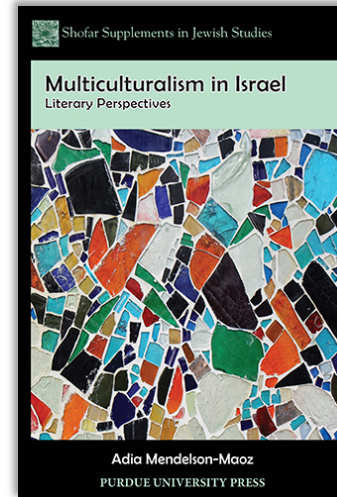
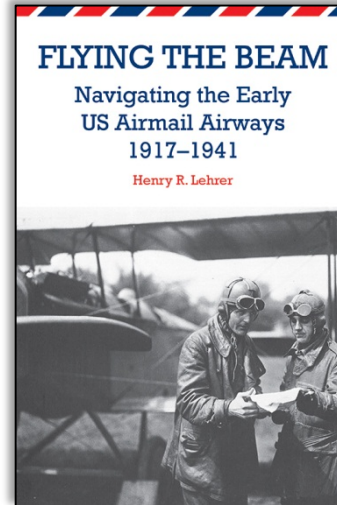
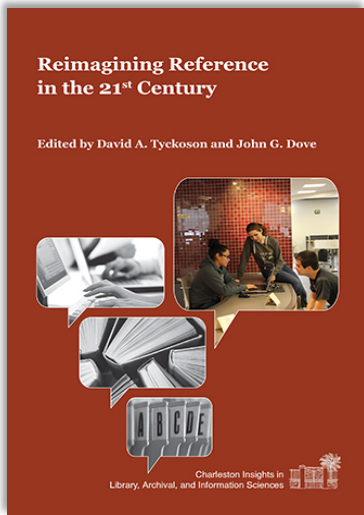
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Author(s) Coyle, Eugene D. & Simmons, Richard A.

Publisher Purdue University Press, West Lafayette, IN

Published 2014

Subjects Society and social sciences, Politics and government, Political science and theory

Abstract Central issues in global energy are discussed through interdisciplinary dialogue between experts from both North America and Europe with overview from historical, political, and socio-cultural perspectives, outlining the technology and policy issues facing the development of major conventional and renewable energy sources. We

Keywords Energy consumption
Energy policy
Energy development
Renewable energy sources

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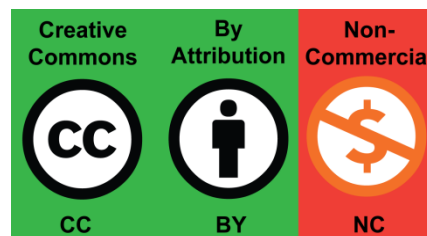
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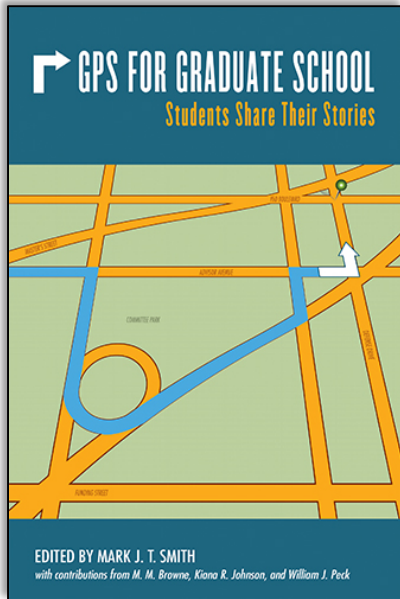
We are facing a global energy crisis caused by world population growth, an escalating increase in demand, and continued dependence on fossil-based fuels for generation. It is widely accepted that increases in greenhouse gas concentration levels, if not reversed, will result in major changes to world climate with consequential effects on our society and economy. This is just the kind of intractable problem that Purdue University's Global Policy Research Institute seeks to address in the *Purdue Studies in Public Policy* series by promoting the engagement between policy makers and experts in fields such as engineering and technology.

Major steps forward in the development and use of technology are required. In order to achieve solutions of the required scale and magnitude within a limited timeline, it is essential that engineers be not only technologically-adept but also aware of the wider social and political issues that policy-makers face. Likewise, it is also imperative that policy makers liaise closely with the academic community in order to realize advances. This book is designed to bridge the gap between these two groups, with a particular emphasis on educating the socially-conscious engineers and technologists of the future.



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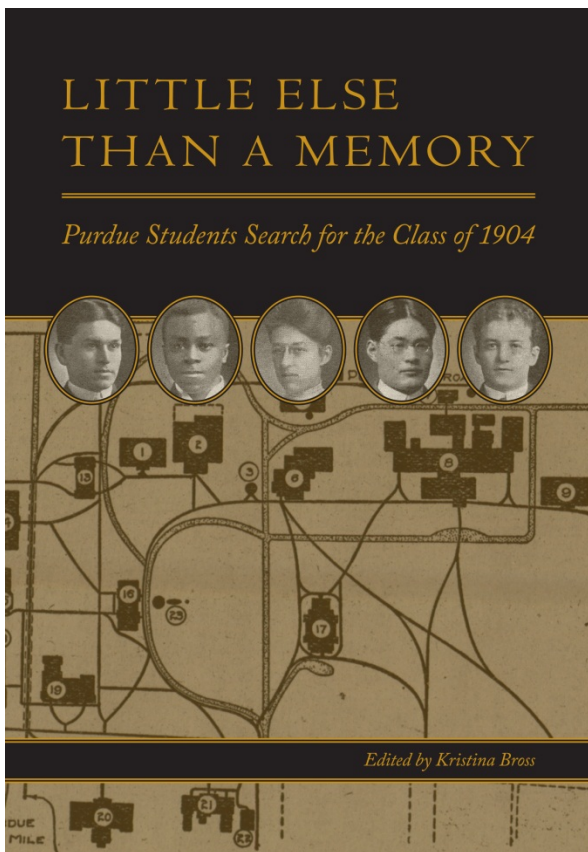
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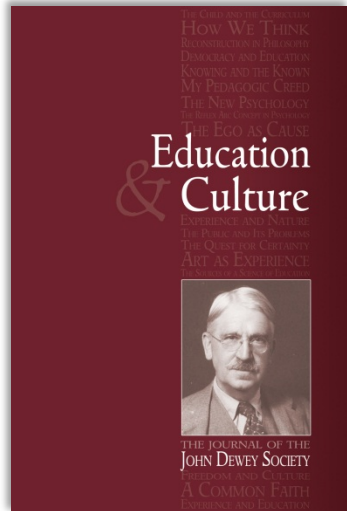
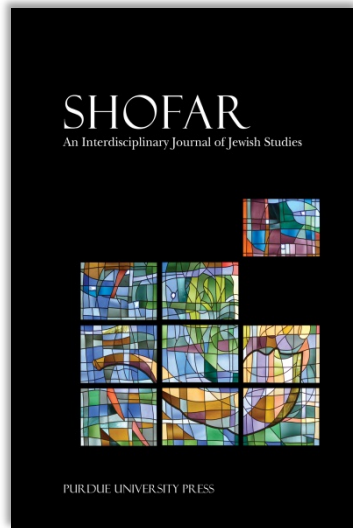
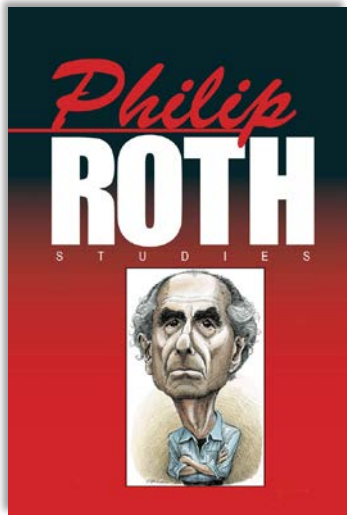
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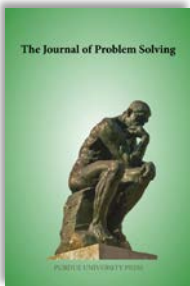
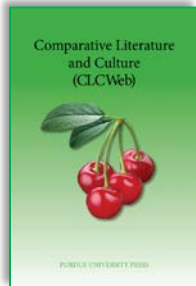
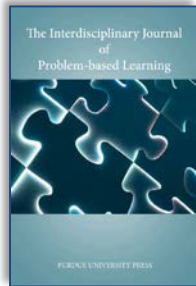
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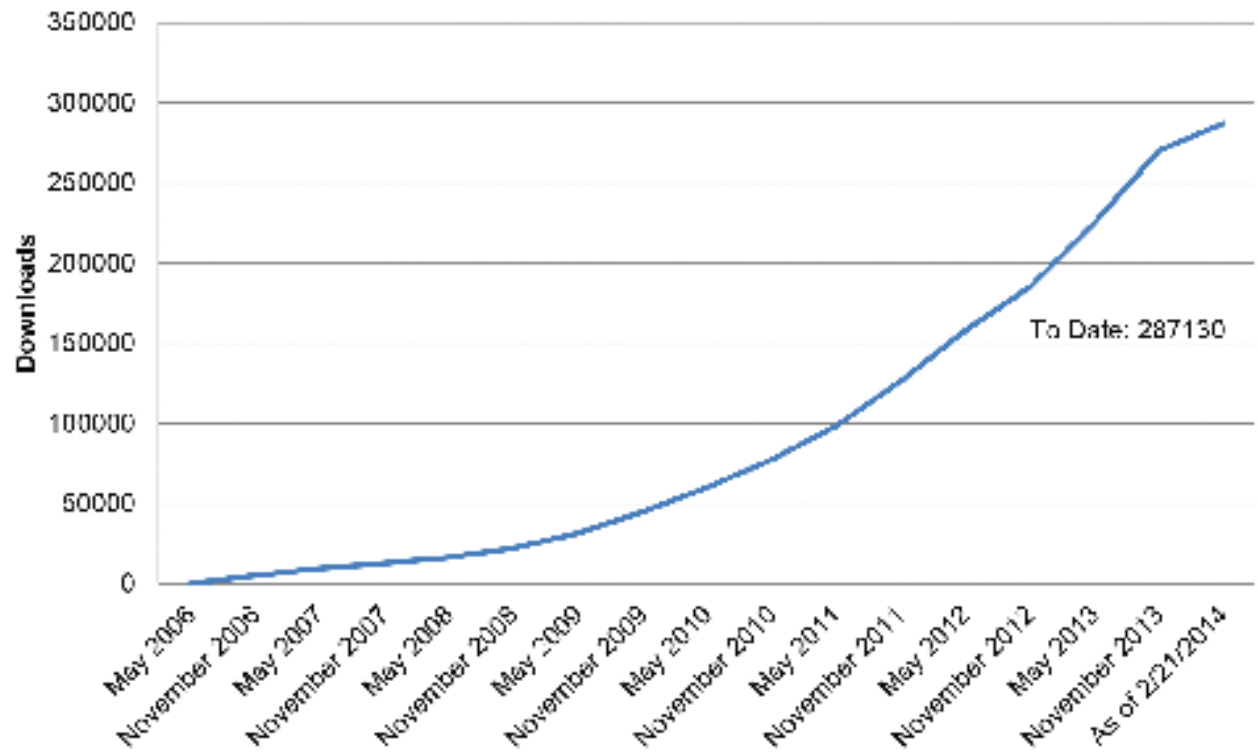


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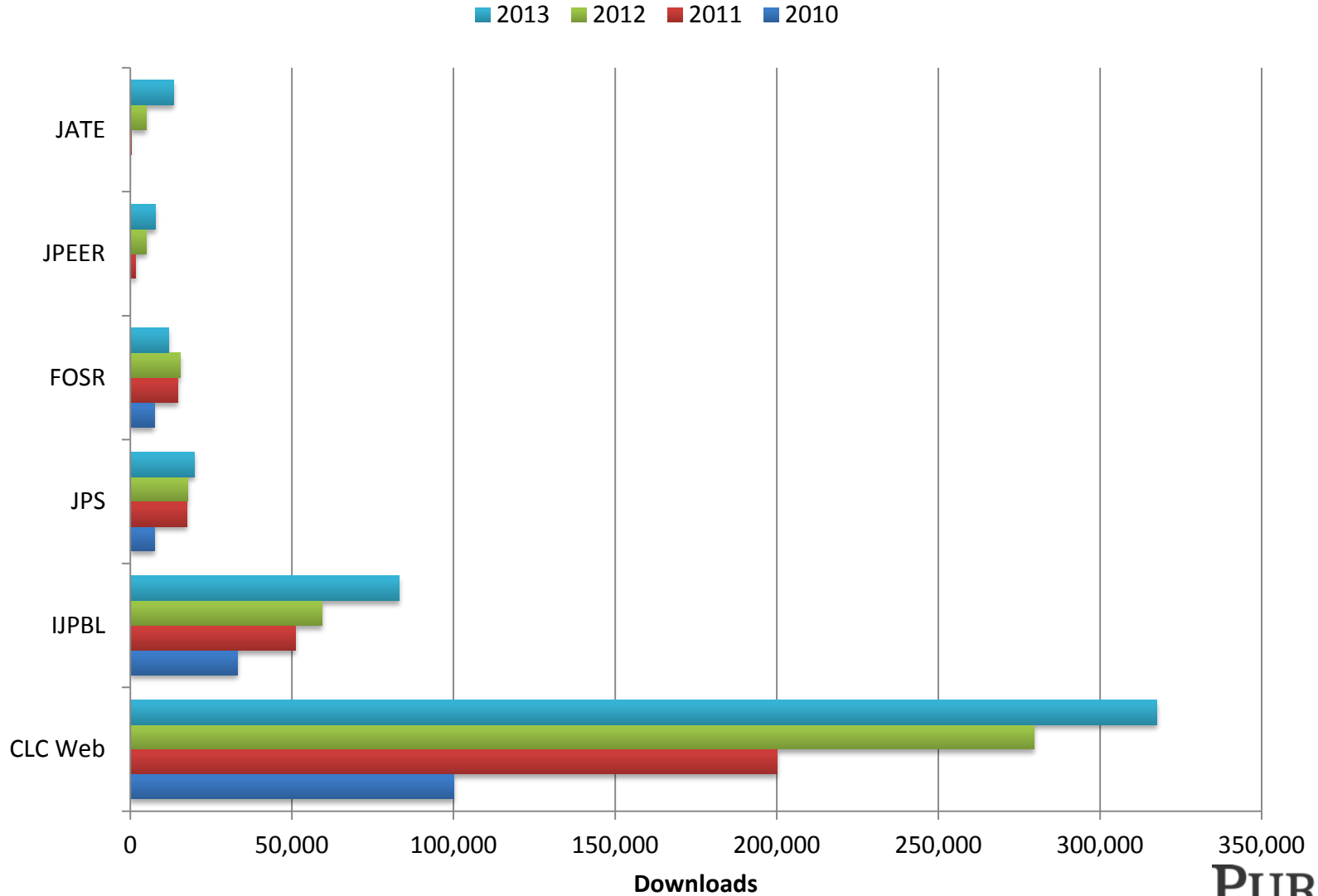


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ADJUSTING FORCE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges

By Amit H. Varma, Youngmoo Sohn
Purdue University

Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Bridges

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Abstract Guidelines for conducting heat straightening repair have been developed by FHWA and many DOTs. The guidelines establish limits for: (a) the maximum damage that can be repaired, (b) the maximum restraining force, and (c) the maximum heating temperature to prevent the side effects of heat straightening repair process.

However the heat straightening guidelines are violated in the field due to time and economic issues. These violations include, but are not limited to: (a) under heating below 1200°F, (b) over heating above 1200°F, (c) over straining above restraining force limit (0.5 Mp) and (d) multiple heat straightening of the same beam more than two times.

Currently, there is a lack of knowledge of the effects of these imperfections in the heat straightening repair process on the condition and serviceability of the damaged-repaired beams. This knowledge is needed to develop more realistic guidelines for evaluating and replacing bridge members subjected to damage followed by imperfect heat straightening repair.

The overall goal of this research is to develop recommendations and guidelines for evaluating steel beam bridges in Indiana subjected to damage followed by heat straightening repair with imperfections (overstraining, overheating, or multiple heat straightening).



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