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Evaluating the strategic behaviour of cement producers: an Equilibrium Problem with Equilibrium Constraints

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Highlights

- We describe the oligopolistic behavior of cement producers in an international market;
- Each producer's problem is formulated as a Mathematical Program with Equilibrium Constraints;
- Producers' interactions are studied with an Equilibrium Problem with Equilibrium Constraints;
- The problem is linearized and transformed into a Mixed Integer Linear Programming model;
- We study the impact of costs, capacity and demand fluctuation through a parametric analysis.

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