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Pyomo — Optimization Modeling in Python

Second Edition

Pyomo Optimization Modeling In Python Springer Optimization And Its Applications

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Pyomo - Optimization Modeling in Python William E. Hart, Carl Laird, Jean-Paul Watson, David L.

Woodruff, 2012-02-15 This book provides a complete and comprehensive reference guide to Pyomo Python Optimization Modeling Objects for both beginning and advanced modelers including students at the undergraduate and graduate levels academic researchers and practitioners The text illustrates the breadth of the modeling and analysis capabilities that are supported by the software and support of complex real world applications Pyomo is an open source software package for formulating and solving large scale optimization and operations research problems The text begins with a tutorial on simple linear and integer programming models A detailed reference of Pyomo's modeling components is illustrated with extensive examples including a discussion of how to load data from data sources like spreadsheets and databases Chapters describing advanced modeling capabilities for nonlinear and stochastic optimization are also included The Pyomo software provides familiar modeling features within Python a powerful dynamic programming language that has a very clear readable syntax and intuitive object orientation Pyomo includes Python classes for defining sparse sets parameters and variables which can be used to formulate algebraic expressions that define objectives and constraints Moreover Pyomo can be used from a command line interface and within Python's interactive command environment which makes it easy to create Pyomo models apply a variety of optimizers and examine solutions The software supports a different modeling approach than commercial AML Algebraic Modeling Languages tools and is designed for flexibility extensibility portability and maintainability but also maintains the central ideas in modern AMLs *Pyomo — Optimization Modeling in Python* Michael L. Bynum, Gabriel A.

Hackebeil, William E. Hart, Carl D. Laird, Bethany L. Nicholson, John D. Sirola, Jean-Paul Watson, David L. Woodruff, 2021-03-30 This book provides a complete and comprehensive guide to Pyomo Python Optimization Modeling Objects for beginning and advanced modelers including students at the undergraduate and graduate levels academic researchers and practitioners Using many examples to illustrate the different techniques useful for formulating models this text beautifully elucidates the breadth of modeling capabilities that are supported by Pyomo and its handling of complex real world applications In the third edition much of the material has been reorganized new examples have been added and a new chapter has been added describing how modelers can improve the performance of their models The authors have also modified their recommended method for importing Pyomo A big change in this edition is the emphasis of concrete models which provide fewer restrictions on the specification and use of Pyomo models Pyomo is an open source software package for formulating and solving large scale optimization problems The software extends the modeling approach supported by modern AML Algebraic Modeling Language tools Pyomo is a flexible extensible and portable AML that is embedded in Python a full featured scripting language Python is a powerful and dynamic programming language that has a very clear readable syntax and intuitive object orientation Pyomo includes Python classes for defining sparse sets parameters and variables which can be used to formulate

algebraic expressions that define objectives and constraints Moreover Pyomo can be used from a command line interface and within Python's interactive command environment which makes it easy to create Pyomo models apply a variety of optimizers and examine solutions

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Review of the Second edition This book provides a detailed guide to Pyomo for beginners and advanced users from undergraduate students to academic researchers to practitioners the book is a good software guide which I strongly recommend to anybody interested in looking for an alternative to commercial modeling languages in general or in learning or intensifying their Pyomo skills in particular Christina Schenk SIAM Review Vol 61 1 March 2019

13th International Symposium on Process Systems Engineering - PSE 2018, July 1-5 2018 Mario R. Eden, Gavin Towler, Maria Ierapetritou, 2018-07-19

Process Systems Engineering brings together the international community of researchers and engineers interested in computing based methods in process engineering This conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 13th International Symposium on Process Systems Engineering PSE 2018 event held San Diego CA July 1 5 2018 The book contains contributions from academia and industry establishing the core products of PSE defining the new and changing scope of our results and future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes the core products of Process Systems Engineering Defines the

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Design, July 14 - 18, 2019 Salvador Garcia Munoz, Carl D. Laird, Matthew J. Realff, 2019-07-09 FOCAPD 19 Proceedings of the 9th International Conference on Foundations of Computer Aided Process Design July 14 18 2019 compiles the presentations given at the Ninth International Conference on Foundations of Computer Aided Process Design FOCAPD 2019 It highlights the meetings held at this event that brings together researchers educators and practitioners to identify new challenges and opportunities for process and product design Combines presentations from the Ninth International Conference on Foundations of Computer Aided Process Design FOCAPD 2019

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