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The rise of manufacturing intelligence is fuelling innovation in processes and products concerning a low environmental impact over the product’s lifecycle. Sustainable intelligent manufacturing is regarded as a manufacturing paradigm for the 21st century, in the move towards the next generation of manufacturing and processing technologies. The manu

This workbook is an introduction to the main Workbench functions CATIA V5 has to offer. The book's objective is to instruct anyone who wants to learn CATIA V5 Release 19 through organized, graphically rich, step-by-step instructions on the software's basic processes and tools. This book is not intended to be a reference guide. The lessons in this workbook present basic real life design problems along with the workbenches, toolbars, and tools required to solve these problems. Each lesson is presented with sep-by-step instructions. Although most of the steps are detailed for the beginner, the steps and processes are numbered and bolded so the more experienced user can go directly to the subject area of interest. Each lesson consists of an introduction, objectives, an introduction to the workbench and toolbars used in the lesson, step-by-step instructions, and concludes with a summary. Review questions and additional practice exercises are at the end of each lesson. Table of Contents 1. Introduction to CATIA V5 2. Navigating the CATIA V5 Environment 3. Sketcher Workbench 4. Part Design Workbench 5. Drafting Workbench 6. Drafting Workbench 7. Complex Parts & Multiple Sketch Parts 8. Assembly Design Workbench 9. Generative Shape Design Workbench 10. Generative Shape Design Workbench 11. DMU Navigator 12. Rendering Workbench 13.

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The rise of manufacturing intelligence is fuelling innovation in processes and products concerning a low environmental impact over the product’s lifecycle. Sustainable intelligent manufacturing is regarded as a manufacturing paradigm for the 21st century, in the move towards the next generation of manufacturing and processing technologies. The manufacturing industry has reached a turning point in its evolution and new business opportunities are emerging. With sustainable development arises the immense challenge of combining innovative ideas regarding design, materials and products with non-polluting processes and technologies, conserving energy and other natural resources. On the other hand, sustainability has become a key concern for government policies, businesses and the general public. Model cities are embracing novel ecosystems, combining environmental, social and economic issues in more inclusive and integrated frameworks. Green Design, Materials and Manufacturing Processes includes essential research in the field of sustainable intelligent manufacturing and related topics, making a significant contribution to further development of these fields. The volume contains reviewed papers presented at the 2nd International Conference on Sustainable Intelligent Manufacturing, conjointly organized by the Centre for Rapid and Sustainable Product Development, Polytechnic Institute of Leiria, and the Faculty of Architecture, Technical University of Lisbon, both in Portugal. This event was held at the facilities of the Faculty of Architecture, Lisbon, from June 26 to June 29, 2013. A wide range of topics is covered, such as Eco Design and Innovation, Energy Efficiency, Green and Smart Manufacturing, Green Transportation, Life-Cycle Engineering, Renewable Energy Technologies, Reuse and Recycling Techniques, Smart Design, Smart Materials, Sustainable Business Models and Sustainable Construction. Green Design, Materials and Manufacturing Processes is intended for engineers, architects, designers, economists and manufacturers who are actively engaged in the advancement of science and technology regarding key sustainability issues, leading to more suitable, efficient and sustainable products, materials and processes.

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