

BIM in Small-Scale Sustainable Design

Francois Lvy

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Francois Lvy : BIM in Small-Scale Sustainable Design before purchasing it in order to gage whether or not it would be worth my time, and all praised BIM in Small-Scale Sustainable Design:

13 of 14 people found the following review helpful. BIM Sustainable Workflow DetailedBy Chad Conrad, AIAThis book has been very well written and presented in a way that Architects both novice and experienced can appreciate and learn a great deal from. Having been a BIM centric Architect for nearly ten years I found this book engaging and causing me to think about my own workflow procedures and how I approach design and project development. The way the book is presented is well thought out with many detailed examples and case studies that allow the practitioner to follow and integrate into their own work. The author presents the topic in a non-vendor centric basis so that it does not become a presentation of what one software offers over the other but stating what certain software can be used and how.The book made me think about things that I had not considered before as well as issues that I had not thought about since architecture school. I would highly recommend this book to any architect or designer that wants to better understand how in integrate the BIM process and sustainable design as it pertains to developing sustainable projects.0

of 0 people found the following review helpful. ExcellentBy CustomerExcellent and wonderful little book about BIM in small-scale sustainable architecture. Things that we ought to know!1 of 1 people found the following review helpful. One of my all-time favorite BIM booksBy Randall S. DeutschFranois Lvys book, BIM in Small-Scale Sustainable Design, is one of my favorite BIM books primarily because the writing is so clear. Open it on any page and you will quickly see that the thought that went into writing the book is penetrating and exacting. For most of my career I have concentrated on larger projects, but I didn't let that fact get in the way of my enjoying and benefitting from this excellent book and the lessons herein. Don't let the fact that the book concentrates on smaller projects, or that Lvy uses Vectorworks, dissuade you from reading it for professional gain or even for pure reading pleasure. The book is that good! Having written a BIM book myself, and written a BIM blog for many years, I have a real appreciation for how hard it is to cut through the clutter and hype and say something that is meaningful and insightful. Lvy manages to do this on every page sometimes several times a page and it is a shame more people havent read his book and sang its praises.

"Any architect doing small or medium scaled projects who is also vested in sustainable design but is not yet doing BIM will enjoy this book's overall focus."-Architosh.com This work is the leading guide to architectural design within a building information modeling (BIM) workflow, giving the practitioner a clear procedure when designing climate-load dominated buildings. The book incorporates new information related to BIM, integrated practice, and sustainable design, as well information on how designers can incorporate the latest technological tools. Each chapter addresses specific topics, such as natural ventilation for cooling, passive solar heating, rainwater harvesting and building hydrology, optimizing material use and reducing construction waste, and collaborating with consultants or other building professionals such as engineers and energy modelers.

From the Back CoverThe only book focused on BIM strategies for sustainable design in small- and medium-scaled architecture projects Though they are rarely addressed in the same book, building information modeling (BIM) and sustainable design have a lot in common: both are changing the way architects think about the buildings they design, and both have been considered more relevant to large projects than small. In this groundbreaking guide, Franois Lvy demonstrates that sustainable design has an even greater relative impact on small-building performance than large, and that BIM's well-known efficiencies lower overall costs at any scale and can be easily applied to sustainable design. Using real-world examples, this practical desktop resource presents proven methods for using BIM to deal with such essential sustainability issues as natural ventilation for cooling, passive solar heating, and more. It places particular emphasis on using BIM-enabled quantitative analysis to evaluate design alternatives early in the design process, when problems can be corrected and architecture can be optimized easily and at little cost. In addition, BIM in Small-Scale Sustainable Design: Features case studies of eleven small-scale projects in which BIM methodologies were applied to sustainable design issues and problems Addresses critical topics, including site analysis and massing analysis, solar geometry and daylighting, passive heating and cooling, rainwater harvesting, onsite energy systems, materials and waste, and much more Surveys leading BIM applications and complementary software Includes a discussion on collaboration with consultants and other software users, such as energy modelers Complete with coverage of integrated design and other NAAB APR requirements, BIM in Small-Scale Sustainable Design is a must-have resource for architects, engineers, students, and construction professionals involved in sustainable design projects.About the AuthorFranois Lvy, AIA, AIAA,is a registered Texas architect and researcher. He holds an MArch and an MS in architectural engineering from The University of Texas at Austin, where he has been lecturing since 1998. Mr. Lvy has been practicing architecture since 1993, and established his own firm in 1997. His architectural projects have attracted regional and national press, including Dwell magazine and HGTV. In addition to leading CAD and BIM seminars to professionals, his areas of research interest are sustainable architecture, cooling through passive ventilation, and space architecture.