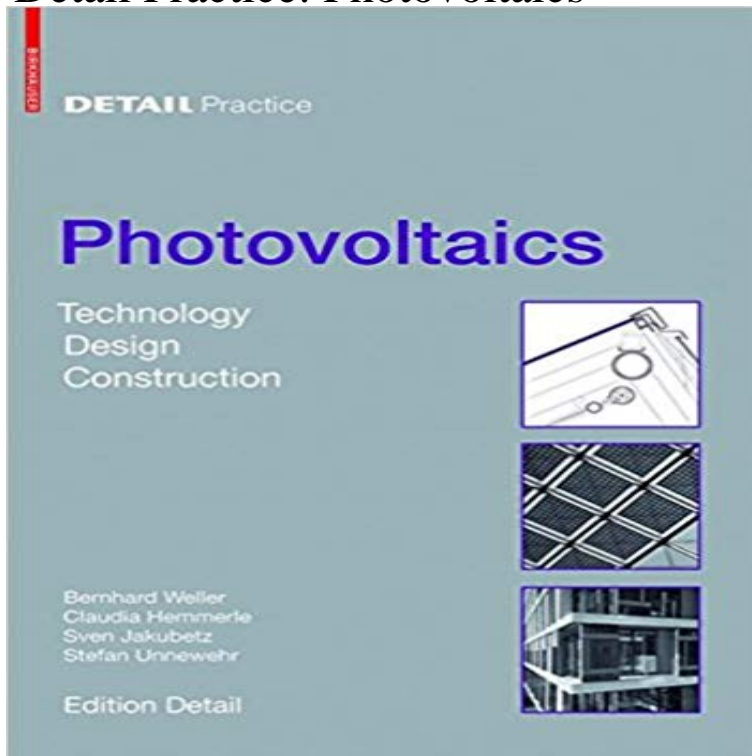


Detail Practice: Photovoltaics



As a critical component in the mix of regenerative energies, photovoltaics help slow the progress of climate change and furnish the earth with a long-term and affordable supply of energy. They are fascinating, with their ability to produce electricity seemingly from nothing, silently, cleanly, and virtually maintenance-free. As a building-integrated technology, photovoltaics have their ideal point of use precisely where electricity is needed and utilize existing spaces and wiring. Yet the scale of current applications of photovoltaics still lags far behind their potential, despite the fact that manufacturers already offer a wide range of different technologies and products. The principal culprits are design and constructional problems as well as issues related to planning law and building regulations. This volume in the DETAIL Practice series is an illustrated guide to the technical, design, and constructional aspects of integrating solar plants into buildings. The chapter on building law, a glossary, and additional sources and directories point the way for further study. Impeccably realized example projects round out the book with demonstrations of the various options for installing photovoltaics on roofs and facades. Die Photovoltaik trägt als wichtiger Baustein im Mix der regenerativen Energien dazu bei, den bereits stattfindenden Klimawandel aufzuhalten und die Erde langfristig mit günstiger Energie zu versorgen. Sie fasziniert mit ihrem Prinzip, lautlos, emissions- und nahezu wartungsfrei aus dem Nichts Strom zu produzieren. Als gebäudegebundene Anlage findet sie ihren idealen Einsatzort genau dort, wo der Strom benötigt wird und nutzt die ohnehin vorhandenen Flächen und Leitungen. Das Ausmaß der derzeitigen Photovoltaik-Anwendungen bleibt jedoch weit hinter ihrem Potenzial zurück, obwohl die Hersteller bereits

vielfältige Techniken und Produkte anbieten. Als Gründe gelten insbesondere gestalterische, k

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