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The aim of this book was to develop an effective system to improve the sound transmission loss of lightweight partition walls. Effective in this context means that the system would be lightweight, economical, and readily installed with current site practice. The accepted wisdom in the area of sound reduction is to drape the entire area of the partition with a sound absorbing membrane material and the work of this book proceeded on this premise. However during the course of the experiments it was found that the assembly detail at the stud had a much more significant effect than the membrane material on sound reduction. It transpired that the main effect of the membrane material was to provide damping under the screws at the stud and if the material was compressed too much the damping was compromised. The book reports on the introduction of a new "sacrificial layer" which, when incorporated into the stud assembly allows the full damping effect of the membrane material to manifest itself.The book therefore proposes a strip or wad consisting of layers of membrane material and "sacrificial layer" to be mounted on the stud prior to the plasterboard. El desarrollo de la nueva tabiquería disipadora se realizó a partir de ensayos experimentales de 7 tabiques convencionales y 3 modificados. También se realizó un extenso estudio numérico y experimental de los disipadores de acero liviano UFP. Para el último tabique disipador ensayado se obtuvo que la deformación de las planchas de yeso se redujo en un 78% con respecto a las del convencional, mientras que la energía disipada fue 5 veces mayor. Además de lo anterior, el comportamiento cíclico con pinching effect característico de planchas de yeso al degradarse fue prácticamente eliminado. In 1901 the National Bureau of Standards (NBS) was founded to provide standard weights and measures and to be the national physical laboratory for the United States of America. The NBS conducted a lot of research in the fields of science and technology which were reported as "Scientific Papers." In 1988 the NBS became what we know now; the National Institute of Standards and Technology (NIST). This is one of those documents written by employees of the NBS. Current seismic design codes are primarily aimed at protecting human life, which has been successfully observed in recent large earthquakes in Chile, and New Zealand, where the number of fatalities due to collapsed buildings was relatively low. However, the economic losses experienced in these countries were significant and the environmental impacts were potentially important, but they have not been accurately quantified. These large earthquake-induced economic losses and environmental impacts suggest that higher seismic performance, beyond the code requirements, may be necessary to meet the expectations of modern society. To face these challenges, the fully probabilistic Performance Based Earthquake Engineering framework introduced by the Pacific Earthquake Engineering Research Center allows assessing decision variables such as earthquake-induced economic losses, downtime, and fatalities. The quantitative evaluation of these decision variables shows the level of performance of a given building, allowing owners and stakeholders to select higher levels of performance if they are not satisfied with the minimum requirements established by design codes. These higher levels of performance are associated with higher construction costs that also need to be accurately estimated to provide complete information for a satisfactory evaluation of the trade-off between higher investments and future reduction of these earthquake-induced economic losses. The objectives of this dissertation are to provide building-specific performance-based earthquake engineering design strategies to reduce economic losses and environmental impacts. In particular, previous researchers have found that the earthquake-induced economic losses in buildings are dominated by nonstructural components, especially by gypsum partition walls. Traditionally, the main strategy to reduce these losses is to stiffen and strengthen the lateral force resisting system of buildings to reduce the damage to non-structural elements. An alternative strategy, which was investigated in this study, is to enhance the resistance of the non-structural components such as gypsum partition walls. The seismic vulnerability of gypsum partition walls is established through the development of fragility functions that show how typical partition walls become damaged at story drift ratios as low as 0.1%. Based on data from previous building loss studies, a seismic performance goal of damage-free partition walls at story drift ratio of 1.0% was set, and a frictional/sliding connection was designed and tested to achieve this goal. The effectiveness of the connection in reducing earthquake-induced economic losses and environmental impacts was evaluated in a steel special moment resisting frame (SMRF) testbed building. The study demonstrates that the enhanced partitions can reduce the annualized losses by a factor of four to seventeen, compared to conventional partitions. These significant reductions offset the slightly higher initial construction costs, thus promoting the use of the connection based on a life cycle evaluation. The more traditional strategy of enhancing the structural system was also evaluated. The strength and stiffness of the SMRF system of a testbed building was varied to assess the influence on earthquake losses. The code-conforming SMRF design (meeting only the minimum code requirements) exhibits an expected annual loss (EAL) of 0.95% (normalized by its initial construction cost), which over a 50-year service-life and using a discount rate of 3.9%, results in an earthquake-induced expected life cycle cost (ELCC) of 121%. An alternative design, with increased strength and stiffness has a reduced ELCC of 114%. This result suggests that while current seismic design codes do not minimize ELCC, stiffening and strengthening of conventional structural systems may not be the most cost-effective way to improve performance, especially considering the significant upfront costs. This study further compares the effectiveness of the alternative strategy of enhancing nonstructural components (gypsum partition walls) versus the traditional strategy of enhancing the structural system, the results of which demonstrate the potential benefits of the alternative strategy. As an example, by implementing the new gypsum wallboard connection detail, developed in this research, the earthquake-induced ELCC of the code-conforming testbed building is reduced to about the absolute minimum ELCC obtained stiffening the SMRF system of the testbed building. The main advantage of the enhanced partition connection is that it has a very little cost premium over conventional construction. Finally, a simplified methodology to estimate the earthquake-induced ELCC based on the fundamental period of vibration of low-rise steel SMRF buildings is proposed. This methodology introduced a closed-form solution for the EAL, thereby eliminating the need for conducting and integrating nonlinear structural analyses to estimate the EAL for design and risk assessment. This methodology was calibrated with data from the low-rise testbed building example, showing promising results. Just like building physics, performance based building design was hardly an issue before the energy crises of the 1970ies. With the need to upgrade energy efficiency, the interest in overall building performance grew. The term "performance" encompasses all building-related physical properties and qualities that are predictable during the design stage and controllable during and after construction. The term "predictable" demands calculation tools and physical models that allow evaluating a design, whereas "controllable" presumes the existence of measuring methods available on site. The basis for a system of performance arrays are the functional demands, the needs for accessibility, safety, well-being, durability, energy efficiency and sustainability and the requirements imposed by the usage of a building. In continuation of Vol. 1 this second volume discusses light-weight construction with wooden and metal elements, roofing systems, façades, and ends with finishes and the overall risk analysis. Most chapters build on a same scheme: overview, overall performance evaluation, design and construction. The work is absolutely recommended to undergraduates and graduates in architectural and building engineering, though also building engineers, who want to refresh their knowledge, may benefit. The level of discussion assumes the reader has a sound knowledge of building physics, along with a background in structural engineering, building materials and building construction. Where and when needed, input and literature from over the world was used, reason why each chapter ends listing references and literature. From Popular Mechanics (9.6 million readers every month), the hands-down experts on the subject of how things work, comes the most complete and up-to-date DIY guide ever published. This highly sophisticated household manual will instantly become the gold standard for anybody who fixes anything. Filled with color photos, drawings, and diagrams, this encyclopedic how-to covers every area of concern to house and apartment owners, with information on planning ahead; decorating; repairs and improvements; security; infestation, rot, and d& electricity; plumbing; heating; outdoor care; and tools and skills. And it’s easy to find the solution to the particular problem that concerns you, without having to go from page to page of continuous text: the straightforward design breaks down the subjects into clearly defined, color-coded chapters. So whether you’re looking for advice on applying finishes, adding decorative paint effects, constructing walls, fixing the roof, or installing a burglar alarm, the instructions are here. • National Publicity • Cross Marketing on the Website, PM zone • Featured in PM's "Great Stuff Column" • Featured in PM E-Newsletter (125,000 subscribers) • Included in PM "Wish List for Guys" Gift Registry • Advertising in PM Magazine The use of partitions for space organization and zoning has a deep historical context. Temporary partition wall are a necessary component of spatial environment organization that designers are using as one of the solutions. Temporary partitions are an essential component in the design and organization of space, and they help to solve a wide range of problems, especially in open-plan layouts, providing flexibility in dividing loud and quiet private areas, or fast mobile spatial transformation. This thesis offers a vision of the design solution of three prefabricated partition walls. This thesis suggests a solution and vision for the design of prefabricated spatial dividers, consisting of repeated elements. The goals for the projects are to create a partition wall that will be inexpensive to produce, easily transported, quickly assembled and disassembled, made of recyclable materials, and that will not require extra components for construction. Various approaches and techniques are used for creating the prototype design. Three variant users to assemble and build three different spatial wall dividers quickly with various assembly methods and bulk components. There are three existing elements from which it is possible to create and assemble structures and spatial dividers for use in various applications. These prototypes are ready to be mass produced. The wall designs involve 3D visualization, unique opportunities for marketing, and the implementation of alternative materials in creating the components. As a result, the significant implication of this these is providing an effective solution for creating a design for the folding prefabricated spatial divides, assembled through repeating elements. These dividers are inexpensive to produce, mobile in transportation and storage, and include the option of use as a beneficial marketing element. "In this study, a numerical model is developed to capture the in-plane seismic response of full-height gypsum board on cold-formed steel framed partition walls. OpenSees is used to develop a lumped model to capture the behavior of the partition wall. The lumped model characteristics are determined by analyzing a large suite of experimental data on institutional and commercial type metal studs (see MCEER-11-0005). Two error metrics, based on calculation of the maximum force and half-cycle hysteretic energy, are introduced to assess the robustness of the model. The model's predictive capabilities are demonstrated via simulation of individual walls. The partition element is then integrated into numerical models of representative building types and the sensitivity of the building dynamic characteristics due to the presence of the partition wall are evaluated. The largest period shift was found in a model of a three story hospital, which considered the use of institutional partition walls"--Pages iii-iv. Partitions and their Afterlives engages with political partitions and how their aftermath affects the contemporary life of nations and their citizens.

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