

Design Of Portal Frame Buildings 4th Edition

Steel Portal Frame Building Construction

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Portal frames were first developed during the Second World War and became popular in the 1960s. They are now commonly used to create wide-span enclosures such as; warehouses, agricultural buildings, hangars, entertainment and sport venues, factories, large retail units, and so on, where a clear space is required uninterrupted by intermediary columns.

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Part 4: Detailed Design of Portal Frames. 4 - 13. 3.3 First order and second order analysis. For both plastic analysis and elastic analysis of frames, the choice of first-order or second order analysis may be governed by the in-plane flexibility of the frame, measured by the factor α (see Section 3.3.1).

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Portal frames are low-rise structures, comprising columns and rafters, connected by moment-resisting connections. The resistance to lateral and vertical actions is provided by the rigidity of the connections and the bending stiffness of the members, which is increased by a substantial haunch to reinforce the rafter sections.

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