

KOREKSI GAYA GESER KOLOM GEDUNG TRAINING CENTER AKIBAT KETIDAK BERATURAN TORSI

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RINGKASAN

Perkembangan pembangunan di Indonesia belakangan ini mengalami perkembangan yang begitu pesat. Mulai dari jalan, jembatan, gedung, rumah dan lain-lain mengalami perubahan-perubahan yang lebih baik dibandingkan dengan sebelumnya. Dalam perencanaan sebuah bangunan harus memperhatikan beberapa kriteria yang matang dari unsur kekuatan, kenyamanan, aspek ekonomisnya, serta syarat yang ditentukan.

Penelitian ini dilakukan dengan cara mencari nilai koreksi gaya geser dan alternatif susunan struktur elemen vertikal sehingga koreksi gaya geser tidak terjadi, sehingga dapat disimpulkan bahwa terjadi koreksi gaya geser pada kolom A dan Kolom B dan terjadi alternatif desain dalam analisis untuk elemen struktur vertikal yakni dengan merubah dimensi struktur vertikal tersebut. Sehingga kekakuan kolom lebih besar dari kekakuan balok. Dimana nilai eksentrisitas (e) < e_{ijin} sehingga torsi tidak dianggap dan koreksi gaya geser tidak terjadi.

Kata Kunci : koreksi gaya geser, nilai eksentrisitas

THE SHEAR FORCE CORRECTION FOR COLUMN OF TRAINING CENTER BUILDING DUE TO TORSIONAL IRREGULARITY

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ABSTRACT

In construction Indonesia has recently experienced rapid development. Starting from roads, bridges, buildings, houses, and others, have undergone changes that are better than before. In planning a building, one must pay attention to several mature criteria from the elements of strength, comfort, economic aspects, and the eccentricity value of a building. Where by paying attention to the eccentricity value of the building will know the value of the center of column strength and mass stiffness in accordance with the specified conditions.

This research was conducted by looking for the correction value of shear forces and alternative structural arrangement of vertical elements so that the correction of shear forces does not occur, it can be concluded that there is a correction of shear forces in column A and Column B and there is an alternative design in the analysis for vertical structural elements by changing the dimensions the vertical structure. So that the column stiffness is greater than the beam stiffness. Where the eccentricity (e) $< e_{ijin}$, so that the torque is not considered and correction of shear forces does not occur.

Keywords : *shear force correction, eccentricity value*