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CONFERENCE ON INTERNATIONAL SCIENTIFIC DEVELOPMENTS: INSIGHTS INTO MODERN SCIENCE AND INNOVATIVE PRACTICES

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TEMIR-BETON KONSTRUKSIYALARNING ZILZILABARDOSHLIGINI OSHIRISHNING ZAMONAVIY, AMALIY USULLARI

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Kalit so‘zlar:
zilzilabardoshlik, temir-beton konstruksiyalar seysmik yuk kuchlanganlik-deformatsiyalanganlik holati, konstruktiv tugunlar, bino va inshootlar, dinamik tahlil, konstruksiyalarni kuchaytirish.

Keywords:
seismic resistance, reinforced concrete structures, seismic loads, buildings and structures, stress-strain state, structural joints, dynamic analysis, structural strengthening.

Annotatsiya. Mazkur tezisda temir-beton konstruksiyali bino va inshootlarning zilzila ta’siriga qarshi mustahkamligi, deformatsion xususiyatlari va konstruktiv ishonchliligini oshirish masalalari ko‘rib chiqiladi. Seysmik yuklarning bino elementlariga ta’siri, konstruktiv tizimning fazoviy ishlashi, tugunlarning mustahkamligi hamda zamonaviy hisoblash va kuchaytirish usullarining ahamiyati yoritiladi. Shuningdek, temir-beton konstruksiyalarning zilzilabardoshligini baholashda chiziqli va nochiziqli hisoblash usullaridan foydalanish imkoniyatlari tahlil qilinadi.

Abstract. This thesis examines methods for improving the seismic resistance of reinforced concrete buildings and structures, with particular emphasis on structural strength, deformation characteristics, and overall reliability under earthquake loading. The effects of seismic actions on structural elements, the spatial behaviour of structural systems, the strength of joints, and the application of modern analytical and strengthening techniques are discussed. The potential use of linear and nonlinear analysis methods for assessing the seismic performance of reinforced concrete structures is also considered.

Kirish.

O‘zbekiston hududining seysmik faolligi bino va inshootlarni loyihalash, qurish hamda ekspluatatsiya qilish jarayonlarida zilzilabardoshlik masalasiga alohida e’tibor qaratishni talab qiladi. Ayniqsa, turar joy binolari, jamoat binolari va ko‘p qavatli inshootlarning xavfsizligini ta’minlashda temir-beton konstruksiyalarning mexanik xususiyatlarini chuqur o‘rganish muhim ahamiyatga ega.

Tadqiqotning dolzarbligi va maqsadi

Tadqiqotning dolzarbligi seysmik ta’sirlar sharoitida temir-beton konstruksiyali binolarning xavfsizligini oshirish, shikastlanish ehtimolini kamaytirish va konstruktiv tizimlarning samarali ishlashini ta’minlash zarurati bilan belgilanadi.

Tadqiqotning maqsadi temir-beton konstruksiyalarning zilzilabardoshligiga ta’sir etuvchi asosiy konstruktiv va hisobiy omillarni aniqlash, zamonaviy tahlil usullarini o‘rganish hamda bino va inshootlarning seysmik ta’sirlarga qarshiligini oshirish bo‘yicha ilmiy asoslangan tavsiyalar ishlab chiqishdan iborat.

Ushbu maqsadga erishish uchun quyidagi vazifalar belgilanadi:

- temir-beton konstruksiyalarning seysmik ta’sir ostidagi ishlash xususiyatlarini tahlil qilish;
- ustunlar, rigellar, devorlar va ularning tutashuv tugunlaridagi kuchlanish hamda deformatsiyalarni baholash;
- konstruktiv tizimning bikrligi, mustahkamligi va plastik deformatsiyalanish qobiliyati o‘rtasidagi bog‘liqlikni o‘rganish;
- mavjud binolarni kuchaytirishning zamonaviy usullarini taqqoslash;
- zilzilabardoshlikni baholash uchun samarali hisoblash va modellashtirish yondashuvlarini asoslash.

Tadqiqot metodologiyasi

Temir-beton konstruksiyalarning zilzilabardoshligini o‘rganishda nazariy tahlil, amaldagi me’yoriy hujjatlarni o‘rganish, matematik modellashtirish va sonli hisoblash usullaridan foydalanish mumkin.

Dastlab binoning konstruktiv sxemasi, qavatlar soni, elementlarning geometrik o‘lchamlari, beton va armaturaning mexanik tavsiflari aniqlanadi. Shundan so‘ng bino fazoviy hisoblash modeli shakllantirilib, uning xususiy tebranish davrlari, tebranish shakllari va seysmik yuklar ta’siridagi ichki kuchlari baholanadi.

Hisoblash natijalarini tahlil qilishda qavatlararo siljishlar, ustun va rigellardagi ichki kuchlar, tugunlarning deformatsiyalanishi hamda konstruksiyaning umumiy barqarorligiga e’tibor qaratiladi. Bunda hisoblash modellari amaldagi seysmik me’yorlar va tegishli materiallar standartlari talablariga muvofiq tuzilishi lozim.

Temir-beton konstruksiyalarning zilzilabardoshligini oshirish yo‘llari

Zilzilabardoshlikni oshirishning muhim shartlaridan biri binoning konstruktiv sxemasini to‘g‘ri tanlashdir. Yuk ko‘taruvchi elementlarning oqilona joylashtirilishi, bino massasining imkon qadar bir tekis taqsimlanishi va reja bo‘yicha ortiqcha nomuntazamliklarning kamaytirilishi seysmik ta’sir natijasida yuzaga keladigan qo‘shimcha burilishlarni cheklashga yordam beradi.

Karkasli binolarda ustun-rigel tugunlarining mustahkamligi va deformatsion qobiliyati alohida ahamiyatga ega. Ustunlarning mo‘rt buzilishini cheklash, armaturalash talablariga rioya qilish va plastik deformatsiyalarning oldindan ko‘zda tutilgan zonalarda rivojlanishini ta’minlash konstruktiv xavfsizlikni oshirishga xizmat qiladi.

Muhokama va kutilayotgan ilmiy natijalar

Mazkur tadqiqot doirasida turli konstruktiv sxemalarning seysmik ta’sir ostidagi ishlashini qiyosiy tahlil qilish, zilzilabardoshlikka sezilarli ta’sir ko‘rsatuvchi parametrlarni aniqlash va kuchaytirish usullarini baholash nazarda tutiladi.

Kutilayotgan ilmiy natija sifatida konstruksiyalarning mustahkamligi, bikrligi va deformatsion qobiliyati o‘rtasidagi bog‘liqlikni tavsiflovchi hisoblash yondashuvini takomillashtirish, seysmik ta’sirga sezgir elementlarni aniqlash va konstruktiv yechimlarni tanlash bo‘yicha tavsiyalar ishlab chiqish ko‘zda tutiladi. Ushbu natijalar alohida hisoblash va zarur hollarda eksperimental tekshiruvlar orqali tasdiqlanishi lozim.

Tadqiqotning ilmiy yangiligi faqat mavjud usullarni bayon qilish bilan cheklanmasdan, aniq konstruktiv tizim, material parametrlari va seysmik ta’sir sharoitlari uchun yangi bog‘liqlik yoki takomillashtirilgan hisoblash usuli asoslangandagina shakllanadi.

Xulosa

Temir-beton konstruksiyalarning zilzilabardoshligini oshirish bino va inshootlarning uzoq muddatli xavfsizligini ta’minlashdagi muhim ilmiy-amaliy vazifalardan biridir. Bunda konstruktiv sxemani to‘g‘ri tanlash, tugunlarning mustahkamligini ta’minlash, elementlarning deformatsion imkoniyatlarini hisobga

olish va zamonaviy sonli modellashtirish usullaridan foydalanish alohida ahamiyat kasb etadi.

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