

Eka Permanasari Rahma Purisari

"METABOLISM IN ARCHITECTURE"

- Membagi ruang arsitektur dan perkotaan untuk memudahkan manusia mengendalikan lingkungan mereka sendiri.
- Membedakan antara bagian-bagian yang tidak berubah dan bagian-bagian yang harus dilestarikan, untuk memastikan bagian-bagian yang harus diganti secara berkala.
- Keterbukaan hubungan antara masyarakat dan alam.
- Keindahan tidak diciptakan semata-mata oleh seniman, tetapi oleh warga, pengguna dan penikmat, sehingga mereka berkontribusi terhadap suatu karya.
- Prinsip bahwa arsitektur harus mengubah dengan waktu, prinsip replaceability, dan pertukaran, dan siklus metabolik.

NAKAGIN CAPSULE TOWER



- [Design Conception] October1969 December 1970[Fabrication] January 1971 –March 1972
- Site Area: 442 m²
 Building Area: 430 m²
 Total Floor Area: 3,091 m²
- Capsule exterior: Steel with sprayed paint finish Capsule interior: Steel capsule with cloth ceiling and floor carpet

Towers: Corten structural steel

frame

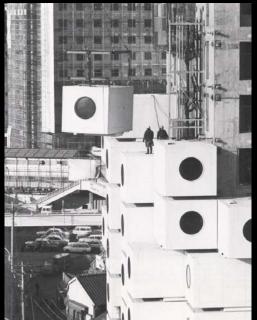
Lower levels: Fair-faced

reinforced concrete

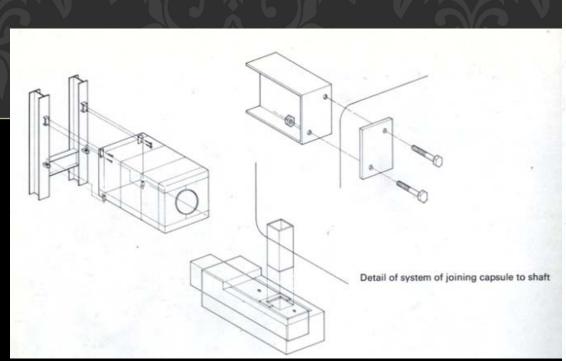


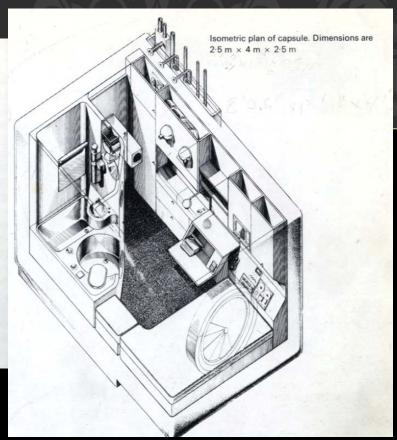
traditional Japanese puzzle game

The Nakagin Capsule Tower is a "mixedsystem" structure, utilizing both
traditional architecture with
modern technology within one
entity. It is made of two reinforced
concrete and steel frame pillars of
asymmetric heights, both housing
public utilities such as stairs,
elevators, plumbing, and electrical
systems (Kurokawa 105).



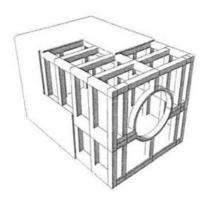




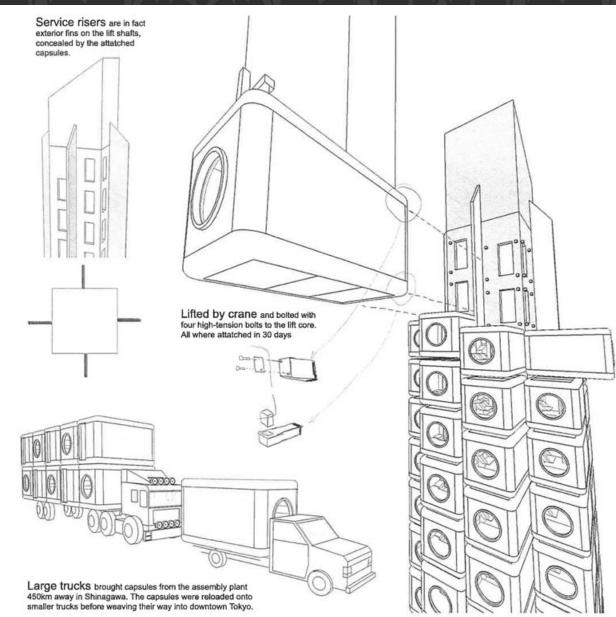


Kurokawa's design concept focuses on how to make the most efficient use of living space to accommodate the everyday essentials of a person. He borrowed the "capsule" terminology from the aerospace industry (already aware that many spaceships have implemented the idea of efficient area-usage) and retrofitted a rectangular cabin of 8 feet by 12 feet floor space with a built-in bathroom, double bed, desk, storage spaces, TV, tapedeck, typewriter, calculator, clock radio, and a 2-burner stove (Ross 71-72).

The lift shafts are circled by spiral staircases linking the many staggered levels. Constructed of precast reinforced concrete, the stairs where useable soon after each floor was installed and included components for the running of the lifts, reducing build



The capsules where prefabricated in a shipping container factory. They are welded lightweight steel-truss boxes. Clad with galvanises ribbed steel panels, a coat of rust prevention paint and a glossy spray of kenitex. (an impervious weatherproof plastic with estimated 20 year life span)



Fabricated Metabolism

A theory of constant mobility change in the built environment.