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RESEARCH QUESTION
How does 'feeling at home' contribute to resilience in extreme environments?

Resilience is a multidimensional condition that integrates geological, engineering, psychological, cultural, and artistic factors. Its ultimate aim is not merely to survive, but treating **feeling at home** as a primary design driver.

1. HOSTILE ENVIRONMENT + TECHNICAL SHELL

Survival / Performance

Designed for protection and efficiency. Standardised, interchangeable, placeless. Supports physiological survival, not attachment.

2. ZONE OF APPROPRIATION AND ADAPTATION

Transition / Agency

Inhabitant agency transforms space. Rituals, practices and objects introduce identity, memory and meaning. From space to place.

3. HABITED SPACE

Meaningful Habitation / Feeling at Home

A sense of belonging, continuity and care. Supports psychological well-being, identity, social bonds, cultural expression and long-term resilience.

MULTIDIMENSIONAL RESILIENCE

Cutter, S.L., 2012. Vulnerability to environmental hazards. In Hazards vulnerability and environmental justice (pp. 71-82). Routledge.



GEOLOGICAL

Linked to the relationship between the habitat and its environmental substrate. The use of local materials, regolith-based construction, and in-situ resource utilisation contributes to environmental coherence.

Tang, H., Ding, Y., & Singer, B. (2020). Interactions and comprehensive effect of indoor environmental quality factors on occupant satisfaction. Building and Environment, 167, 106462.



ENGINEERING

It frames the feeling of being at home primarily through safety, reliability, and performance. Structural integrity, life-support systems, risk mitigation, and environmental comfort, including thermal-hygro-metric, acoustic, and visual conditions, are central to ensuring habitability. Within this framework, resilience is associated with predictability, control, and long-term performance.

Meagher, B. R., Kraus, S., Alvarez-Gomez, A., Donahue, K., Kennedy, T. M., Kline, C.,...Shampine, M. (2024). Predicting home attachment through its psychological costs and benefits: Restoration, space, and social relationships. Journal of Environmental Psychology, 98, 102404.



PSYCHOLOGICAL

Emphasise place attachment, environmental perception, and emotional regulation. Feeling at home emerges through familiarity and multisensory engagement.

Knottnerus, J. D. (2016). Ritual as a missing link: Sociology, structural ritualization theory, and research. Routledge.



CULTURAL

Meaning-making, rituals, narratives, symbols, heritage and creativity. Possibility of expression.

Y, Yuchen (2025) The Interactive Nature of VR Art in the New Media Context". ScienceDirect.



ARTISTIC

Introduces experiential dimensions. Through sound, visual expression, narrative, and ritual, these approaches contribute to the construction of atmosphere.

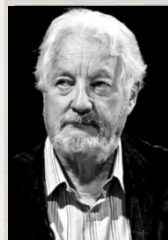


WHAT IS NEW HERE?

RESILIENCE AS A SENSE OF FEELING AT HOME

This relates to Giddens' notion of ontological security: the confidence that the world – and our place in it – is sufficiently stable and predictable to carry on with life.

CRITICAL PERSPECTIVES: THE PROBLEM OF PLACELESSNESS



MARC AUGÉ "NON-PLACES"

Spaces of transit, consumption and communication. Standardised, functional, anonymous, without identity or relational depth.



EDWARD RELPH "PLACELESSNESS"

A condition of existential outsidership. An inability to establish attachment or belonging to the environment.

STANDARDISATION

Efficiency | Universality | Anonymity



ATTACHMENT

Identity | Particularity | Belonging

SURVIVAL

Physiological continuity

RESILIENCE IS THE CAPACITY TO MOVE ALONG THIS CONTINUUM

From mere survival in hostile environments to the creation and sustainment of places where human beings can thrive.

MEANINGFUL HABITATION

A life worth living