

Book Review: Disaster Risk

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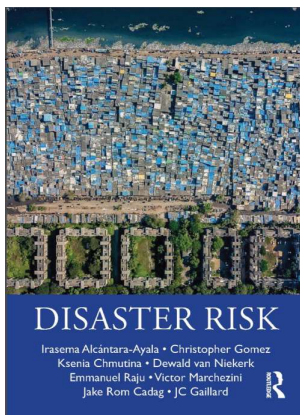
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INTRODUCTION

The book "Disaster Risk"¹ is the collective work of eight leading researchers from various scientific disciplines and countries. This book presents a comprehensive analysis of disaster risk, covering various perspectives from geography, environmental studies, social sciences, and public policy.¹ The author attempts to address the complexity of disaster risk by considering the social, economic, political, and cultural factors that play a role in increasing or reducing that risk.²

The Disaster Risk book has important meaning in understanding disaster risk in a world that is increasingly complex and vulnerable to various types of natural and man-made disasters.¹ Combining a multidisciplinary approach, this book offers valuable insights for academics, practitioners, policy makers and students in the field of disaster risk management. The book Disaster Risk is also relevant in the current global context, where climate change, urbanization and other factors continue to increase the risk and impact of disasters.^{3,4}

The authors of the book "Disaster Risk" have very strong credentials in the field of disaster studies and risk reduction. They are recognized experts in a variety of related disciplines, such as geography, earth sciences, disaster risk management, and risk anthro-

pology.⁵ With extensive research experience and substantial publications, they have made significant contributions to understanding the complexity of disaster risk and developing strategies to increase community resilience.⁶ Their involvement in research that crosses disciplinary boundaries and emphasis on community-based approaches makes them influential in formulating policies and best practices in global disaster risk reduction.⁷

The book "Disaster Risk" is very relevant in the field of disaster risk management and environmental studies. With contributions from authors who have extensive expertise and experience in various aspects of disaster risk, this book provides a holistic and in-depth view of effective ways to reduce risk and increase resilience.¹ This book also serves as an important resource for policymakers, academics, and practitioners working to create communities that are more resilient to disasters.⁵

AUTHOR'S BACKGROUND AND OTHER BOOK WORKS

Each author brings their unique expertise and experience in the field of disaster risk, which includes geomorphological analysis, sustainable health, health policy, global health, disaster sociology, human geography, and disaster risk reduction. The book "Disas-

ter Risk" is the result of a strong collaboration, combining various perspectives to provide a comprehensive and in-depth understanding of disaster risk management.¹

Other books include the book *Geomorphological Hazards and Disaster Prevention*, the book *Disaster Risk Reduction for the Built Environment*, the book *Introduction to Integrated Disaster Risk Management*, the book *People's Response to Disasters* and the book *The Invention of Disaster: Power and Knowledge in Discourses on Hazard and Vulnerability*. Apart from book work, the author has also written many articles on community adaptation to disaster risk, as well as the role of culture in reducing disaster risk.¹

SUMMARY OF THE BOOK

The book "Disaster Risk" examines various aspects of disaster risk with a multidisciplinary approach, aiming to understand and manage disaster risk through comprehensive and integrative analysis. The main theme of this book highlights the importance of considering natural, social, economic, political and cultural factors in disaster risk reduction efforts.⁴ The author argues that disaster risk is not only caused by natural threats, but also by social vulnerability and the level of community resilience. Therefore, a comprehensive and collaborative approach is needed that involves various sectors and scientific disciplines, as well as increasing public awareness and participation in disaster risk reduction efforts.⁵

Topics discussed in this book include the definition and concept of disaster risk, factors causing risk, vulnerability and resilience, case studies from various parts of the world, as well as the importance of a multidisciplinary approach in managing disaster risk.³ The author also discusses policies and best practices in disaster risk reduction, including spatial planning, early warning systems, and community education. The book concludes with a forward-looking look at the challenges and opportunities in managing disaster risks in the future, with a focus on adaptation to climate change and increasing global resilience.⁶ Thus, "Disaster Risk" provides a comprehensive and integrative insight into how to manage disaster risk effectively, emphasizing a human-centered approach and interdisciplinary collaboration.

CRITICAL ANALYSIS

Strengths: Overall, the book "Disaster Risk" shows outstanding excellence in terms of quality of research, clarity of writing, structure, and importance of content. This book successfully combines various scientific disciplines to provide an in-depth and evidence-based analysis of disaster risk, supported by the latest research and case studies from various parts of the world. The authors, who are leading experts, are able to integrate multiple perspectives to

create a holistic understanding of disaster risk, making it an invaluable resource for academics, practitioners, and policy makers.⁸

With clear and easy-to-understand writing, a well-designed structure, and content relevant to current global issues, this book provides a comprehensive and practical guide to disaster risk management. This book emphasizes the importance of collaborative and community-based approaches, and provides practical recommendations that can be implemented in the field. Thus, "Disaster Risk" not only provides theoretical insights but also a real contribution to increasing society's resilience to disasters in the modern era.⁹

Weaknesses: The book "Disaster Risk" has several weaknesses that include gaps in research, potential bias towards Western scientific approaches, and some arguments that are poorly supported by strong empirical evidence. Certain geographic areas, such as Sub-Saharan Africa and remote regions of Asia, are underrepresented in the case studies presented. Additionally, an emphasis on Western perspectives in methodology and analysis can ignore local and traditional knowledge that is also important in disaster risk reduction.^{1,10}

To overcome these weaknesses, authors could expand their research to cover more underrepresented regions, as well as include more local perspectives and knowledge in the analysis. Increasing empirical evidence through field research and the use of newer technologies can also strengthen their arguments. In addition, diversifying perspectives by integrating more scientific disciplines can provide a more comprehensive view of disaster risk. Thus, the book "Disaster Risk" can become a more powerful and holistic resource in understanding and managing disaster risk.^{1,3}

RELEVANCE AND CONTRIBUTION TO THE FIELD

The book "Disaster Risk" makes significant contributions to the field of disaster studies in several different ways. First, this book integrates various perspectives and disciplines, such as geography, earth sciences, social sciences, and risk anthropology, to provide a more holistic understanding of disaster risk.^{1,5} Through this approach, this book not only expands existing knowledge but also introduces new theories and relevant empirical data.

One of the main contributions of this book is in introducing a new approach to managing disaster risk that is more human-centred and community-based. This includes the application of new practices in disaster management, such as the integration of local and traditional knowledge in risk reduction strategies. Apart from that, this book is also relevant to current issues in the field, such as adaptation to climate change, rapid urbanization, and social inequali-

ty which can increase vulnerability to disasters. By introducing new perspectives and offering practical solutions, this book has the potential to influence future disaster risk management policy and practice globally.^{4,9}

Overall, the book "Disaster Risk" had a significant impact on my understanding, skills and awareness of disaster risk management. This book offers not only theoretical insights but also very useful practical guidance, which inspires and motivates me to continue learning and contributing to this field.

COMPARISON WITH OTHER WORKS

The book "Disaster Risk" stands out for its multidisciplinary and comprehensive approach. By involving authors from various scientific backgrounds such as geography, earth sciences, social sciences and risk anthropology, this book is able to provide a holistic understanding of disaster risk.¹ Apart from that, this book also presents innovations in risk management by introducing new strategies such as the integration of local knowledge and community-based approaches. Its relevance to contemporary issues such as climate change, urbanization, and social inequality also makes it an important contributor to global discussions about sustainability and societal resilience to disasters.¹¹ This differentiates it from other books which often focus more on one scientific discipline in overcoming disaster risk challenges.¹²

CONCLUSION

The book "Disaster Risk" is a work that presents a comprehensive analysis of disaster risk through a multidisciplinary approach involving various scientific disciplines such as geography, earth sciences, social sciences and risk anthropology. The authors succeeded in capturing the complexity of disaster risk by considering social, economic, political and cultural factors that influence community vulnerability. This book has important meaning in a global context that is increasingly vulnerable to natural and man-made disasters, and provides valuable insights

for academics, practitioners and policy makers in efforts to effectively manage disaster risk.

The recommendation for this book is to continue expanding the inclusion of local and traditional knowledge in their analysis, as well as increasing empirical evidence through more in-depth field research. In this way, this book can become a more powerful and holistic resource in understanding and managing disaster risk in the future.

REFERENCES

1. Ayala A, Gomez , Niekerk , Raju , Marchezini , Cadag , et al. *Disaster Risk*. 1st ed. London: Routledge; 2022.
2. Gaillard JC,&MJ. *From knowledge to action? New challenges in natural hazards research*. 1st ed. London: Springer Science & Business Media; 2012.
3. UNDRR (United Nations Office for Disaster Risk Reduction). *Global Assessment Report on Disaster Risk Reduction: Risk and poverty in a changing climate*. New York: United Nations; 2020.
4. Cutter SL,BCG,&ECT. Disaster resilience indicators for benchmarking baseline conditions. *Journal of Homeland Security and Emergency Management*. 2010; 7(1):51. <https://doi.org/10.2202/1547-7355.1732>
5. Marchezini V,&SP. *Social Vulnerability to Disasters* New York: Springer; 2021.
6. van Niekerk D. *Disaster Risk Governance: Urbanization, Resilience and Emergency Management* New York: Springer; 2018.
7. Chmutina K,&vMJ. *Resilience to Disasters: New Directions in Theory and Practice* London: Routledge; 2019.
8. Alcántara-Ayala I,&BJ. *The Routledge Handbook of Disaster Risk Reduction Including Climate Change Adaptation*. : Routledge; 2020.
9. Tierney KJ. *The Social Roots of Risk: Producing Disasters, Promoting Resilience* Redwood California: Stanford University Press; 2019.
10. Oliver-Smith A. *The Cambridge Encyclopedia of Anthropology* Cambridge : Cambridge University Press.; 2016.
11. Gaillard JC,&MJ. *From Knowledge to Action: Bridging Gaps in Disaster Risk Reduction*. *Progress in Human Geography*. 2012; 37(1), 93-114.
12. Tierney K. *The Social Roots of Risk: Producing Disasters, Promoting Resilience* Stanford : Stanford University Press; 2014.