



## Debris Flow: Mechanics, Prediction and Countermeasures, 2nd edition

By Tamotsu Takahashi



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**Debris Flow: Mechanics, Prediction and Countermeasures, 2nd edition** By Tamotsu Takahashi

This is the 2nd edition of one of the most comprehensive accounts of debris flow, describing both theoretical and applied aspects. In the first part, the fundamental mechanical characteristics are discussed, including flow characteristics, type classification, mechanics, occurrence and development, fully developed flow, and deposition processes. The second part sheds light on the application of the theories presented in computer-simulated reproductions of real disasters. Special attention is paid to debris flow controlling structures, design effectiveness and performance, soft countermeasure problems, such as the identification of debris flow prone ravines and the prediction of occurrence by means of precipitation threshold. This new edition has been wholly revised and updated, and now includes a new chapter on sediment runoff models that include debris flow processes and new sections concerning landslides.

The qualitative and fundamental character of this text makes it an excellent textbook for graduate-level courses and it is recommended reading for professionals in engineering, geosciences and water resources who are working on the mechanics and countermeasures of debris flow. The original, Japanese version of this book was awarded the 'Publishing Culture Prize' by the Japanese Society of Civil Engineers (2004).

*Tamotsu Takahashi is Professor Emeritus at the University of Kyoto. In addition to his academic positions, he is the Director of the Association for Disaster Prevention Research in Kyoto. Professor Takahashi began his career in flood dynamics research, and increasingly focused on debris flow and flood hazards. He has been honoured with several awards from the Japan Society of Civil Engineers and the Japan Society of Erosion Control Engineering. An earlier book entitled 'Debris Flow', by Tamotsu Takahashi, in the book series of the International Association of Hydraulic Engineering and Research, was published by Balkema Publishers, now a part of the Taylor & Francis Group.*



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### **Editorial Review**

#### About the Author

Tamotsu Takahashi (Kyoto, 1939) graduated as a Master in Civil Engineering at Kyoto University in 1965. From 1965 to 1967, he then worked as a research assistant at the Disaster Prevention Research Institute (DPRI) of the same university and, after a year in the Civil Engineering Department as a lecturer, he returned in 1968 to the DPRI as an associate professor. With his research on flood flow dynamics in river channels, he obtained the doctoral degree in 1972. After this, he worked as a post-doctoral fellow at Lincoln College, New Zealand, where he investigated miscellaneous problems that were associated with braided rivers. Upon returning to DPRI in Japan, he put importance on the study of sediment runoff problems that were involved with debris flow and bed load on very steep slope channels. Consequently, in 1982, he was awarded a full professorship for a newly founded research section on the investigation of anti-flood hazards systems. He then added slightly more themes to his portfolio and extended his research to the water flooding and sediment problems in urban areas. From 1992 he moved to the research section on the investigation of sedimentation problems.

After his retirement in 2003, he continued working on debris flow and sediment runoff problems as a professor emeritus at Kyoto University. From 1995 to 1997 he served as the director of DPRI and during this appointment, he has reorganized the entire DPRI and has thoroughly promoted the scientific investigation of the Great Hanshin Earthquake which took place in Kobe in 1995 as the director of DPRI and the head of the Japanese Group for the Study of Natural Disaster Science. He is now working for the foundation 'Association for Disaster Prevention Research' as the chief director.

Professor Takahashi has authored numerous papers and held many invited keynote lectures. He also received several awards for his outstanding work from the Japan Society of Civil Engineers and from the Japan Society of Erosion Control Engineering. His successful book 'Debris Flow', published in 1991 by A.A. Balkema Publishers in the IAHR monograph series was the first systematic approach to the subject and is still frequently referred to. The original Japanese language version of this current new and extended edition was received very well and the author was awarded the Publishing Culture Prize from the Japan Society of Civil Engineers in 2004 for it. He was also awarded the Akagi Prize in 2008 for his outstanding contributions to the prevention and mitigation of debris flow disasters.

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**John Reed:**

Exactly why? Because this Debris Flow: Mechanics, Prediction and Countermeasures, 2nd edition is an unordinary book that the inside of the guide waiting for you to snap it but latter it will distress you with the secret the idea inside. Reading this book next to it was fantastic author who all write the book in such wonderful way makes the content interior easier to understand, entertaining way but still convey the meaning thoroughly. So , it is good for you because of not hesitating having this ever again or you going to regret it. This excellent book will give you a lot of positive aspects than the other book include such as help improving your expertise and your critical thinking technique. So , still want to hold up having that book? If I have been you I will go to the e-book store hurriedly.

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