

## **Publications of Dr. Chang Dae (Paul) Han**

### **Books (As Author):**

1. "Rheology in Polymer Processing," graduate-level textbook and research monograph. 356 pages. Academic Press. Russian translation of this monograph has been published in 1979. Chinese translation of this monograph has been published in 1985.
2. "Multiphase Flow in Polymer Processing," research monograph. 448 pages, Academic Press, 1981.
3. "Rheology and Processing of Polymeric Materials. Volume 1: Polymer Rheology, 707 pages, and Volume 2: Polymer Processing. 579 pages," research monograph. Oxford University Press, 2007.

## Rheology in Polymer Processing (366 pages)



Published by Academic Press in 1976.

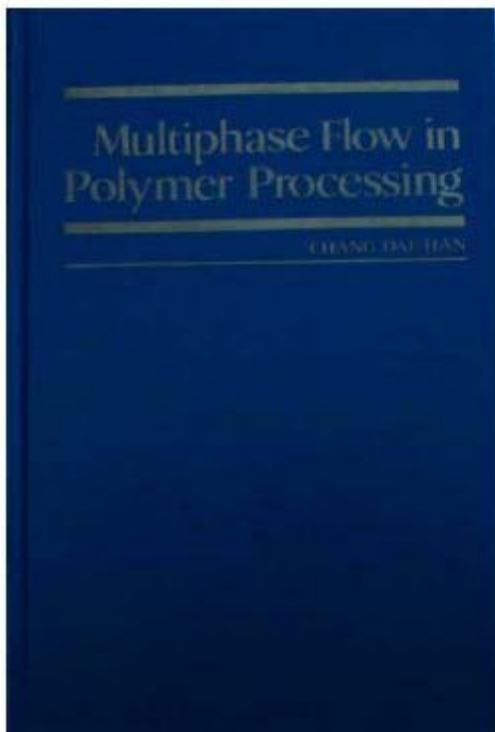


Russian Translation  
Published in 1979.



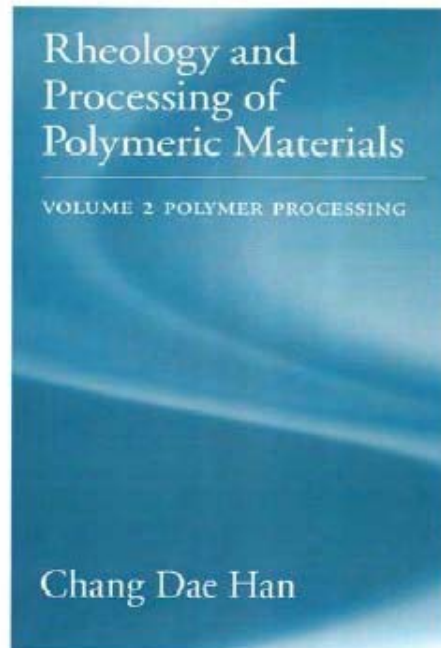
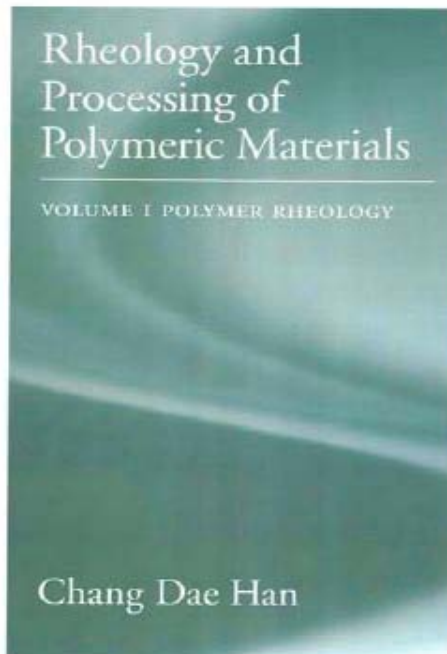
Chinese Translation  
Published in 1985.

**Multiphase Flow in Polymer Processing (459 pages)**



Published by Academic  
Press in 1981

**Rheology and Processing of Polymeric Materials**  
**Volume 1 Polymer Rheology (707 pages)**  
**Volume 2 Polymer Processing (579 pages)**



This two-volume research monograph has been published by Oxford University Press in 2007.

## Book (As Editor)

"Polymer Blends and Composites in Multiphase Systems," ACS Advances in Chemistry Series, No. 206, 383 pages, American Chemical Society, Washington, DC. 1984.

## Contributions to Book Chapters and Proceedings

1. "Measurements of the Rheological Properties of Biological Fluids," Chapter 8 in *Rheology of Biological Systems*, Edited by L. Gablenick and M. Litt, Charles C. Thomas Publishers (1973).
2. "Rheology and Processing of Multiphase Polymeric Systems," page 66 in the *Proceedings of the 7th International Congress on Rheology*, Edited by C. Klason and J. Kubat, Chalmers University of Technology Press, Gothenburg, Sweden (1976).
3. "Multiphase Flow in Polymer Processing," page 121, vol. 3 in the *Proceedings of the 8th International Congress on Rheology*, Edited by G. Astarita, G. Marrucci, and L. Nicolais, Plenum Press (1980).
4. "Chemorheology and Curing Kinetics of Unsaturated Polyesters and Vinyl Resins," page 202 in *American Chemical Society Symposium Series*, No. 227, American Chemical Society, Washington, DC (1983).
5. "Rheological Behavior of Blends of Nylon 6 with a Chemically Modified Polyolefins," page 171 in *American Chemical Society Advanced Chemistry Series*, No. 206, American Chemical Society, Washington, DC (1984).
6. "Rheology-Processing-Property Relationships in Heterogeneous Polymer Blends," page 103 in *Proceedings of 17th Europhysics Conference on Macromolecular Physics: Morphology of Polymers*, Prague, Czechoslovakia (1986).
7. "Rheology of Polymeric Liquids," in *Encyclopedia of Physical Science and Technology*, page 197, Vol. 12 in the First and Second Edition, Academic Press (1987); page 237, Vol. 14 the Third Edition, Academic Press (2002).
8. "Molecular and Textural Ordering of Thermotropic Polymers in Shear Flow," in *Proceedings of Materials Research Society Symposium*, No. 461, page 64-10 (1997).
9. "Slit Rheometry," Chapter 2 in *Rheological Measurement*, Edited by A. A. Collyer and D. W. Clegg, Elsevier Applied Science; Second Edition, Chapman & Hall (1998).

## Original Papers Published in Referred Scientific Journals

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3. Han, C. D.: A Note on Numerical Inversion of the Laplace Transform by Legendre Polynomials, *IEEE Trans. Automatic Control* **AC-12**, 230 (1967).
4. Han, C. D. and Bixler, H. J.: Washing of the Residual Liquid Retained by Granular

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7. Han, C. D.: Evaluation of Some of the Kinetic Parameters in Crystallization, *Chem. Eng. Sci.*, **23**, 321 (1968).
8. Han, C. D.: Stability Analysis of a Packed Bed Tubular Reactor via Popov's Frequency Method, *Ind. Eng. Chem. Fundam.*, **8**, 16 (1969).
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11. Han, C. D. and Meyer, A. U.: Stability Analysis of a Class of Non-Linear Distributed Parameter Systems, *Intern. J. Control*, **11**, 509 (1970).
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