

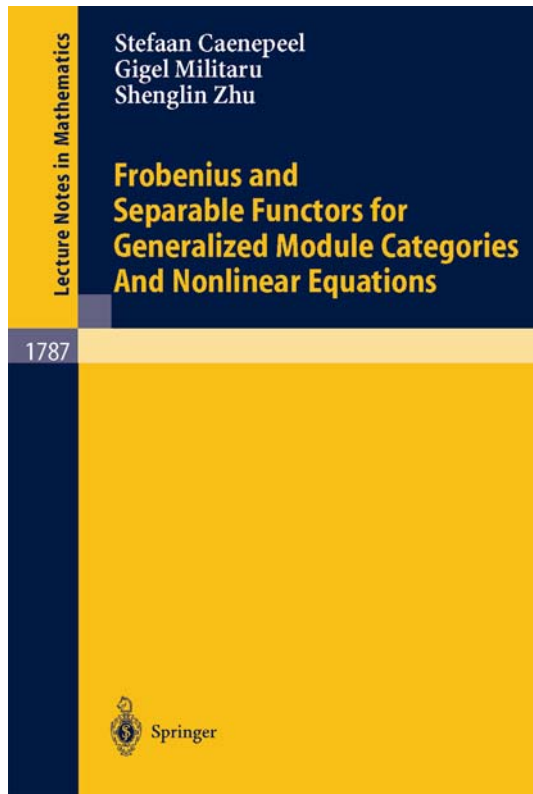
# S. Caenepeel, G. Militaru, S. Zhu

## Frobenius and Separable Functors for Generalized Module Categories and Nonlinear Equations



Springer

Lecture Notes in Mathematics Vol. 1787



**S. Caenepeel**, *Vrije Universiteit Brussel, Belgium*  
**G. Militaru**, *University of Bucharest, Romania*  
**S. Zhu**, *Fudan University, Shanghai, China*

XIV, 354 pp. Softcover.  
EUR 49,95  
ISBN 3-540-43782-7

Doi-Koppinen Hopf modules and entwined modules unify various kinds of modules that have been intensively studied over the past decades, such as Hopf modules, graded modules, Yetter-Drinfeld modules. The book presents a unified theory, with focus on categorical concepts generalizing the notions of separable and Frobenius algebras, and discussing relations with smash products, Galois theory and descent theory. Each chapter of Part II is devoted to a particular nonlinear equation. The exposé is organized in such a way that the analogies between the four are clear. The Frobenius-separability equation provides a new viewpoint to Frobenius algebras and separable algebras.



### ORDER FORM

- Please bill me  
 Please charge my credit card  
 Visa/Barclaycard/Bank Americard  
 Eurocard/Access/Mastercard  
 American Express  
Number \_\_\_\_\_  
Valid until \_\_\_\_\_

Yes, please send me

\_\_\_\_\_ copy/copies

**S. Caenepeel, G. Militaru, S. Zhu;**  
**Frobenius and Separable Functors for**  
**Generalized Module Categories and**  
**Nonlinear Equations**

ISBN 3-540-43782-7

EUR 44,95

Please order through:

**Springer Customer Service**  
**Haberstr. 7**

**69126 Heidelberg**  
**Germany**

Fax: ++49 (0)6221 / 345 229

Email: [orders@springer.de](mailto:orders@springer.de)

Name \_\_\_\_\_

Dept. \_\_\_\_\_

Institution \_\_\_\_\_

Street \_\_\_\_\_

City/ ZIP-Code \_\_\_\_\_

Country \_\_\_\_\_

e-mail: \_\_\_\_\_

Date & Signature \_\_\_\_\_

#### \* Pricing Policy

All prices are net-prices subject to local VAT, e.g. in Germany 7% VAT for books and 16% VAT for electronic products. Exception: Prices quoted in SFr include local VAT. If ordered from the Publisher, postage is 2,50 EUR per order for delivery within Germany, Austria and Switzerland; for other European countries 5 EUR for the first item, 1,50 EUR for each additional item; outside Europe airmail delivery is 13 EUR for the first item, 3 EUR for each additional item.