



Mathematical Modelling Courses for Engineering Education

By Ersoy, Yasar / Moscardini, Alfredo O.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the NATO Advanced Research Workshop on The Design of Mathematical Modelling Courses for Engineering Education, held in Izmir, Turkey, July 12 - 16, 1993 | As the role of the modern engineer is markedly different from that of even a decade ago, the theme of engineering mathematics education (EME) is an important one. The need for mathematical modelling (MM) courses and consideration of the educational impact of computer-based technology environments merit special attention. This book contains the proceeding of the NATO Advanced Research Workshop held on this theme in July 1993. We have left the industrial age behind and have entered the information age. Computers and other emerging technologies are penetrating society in depth and gaining a strong influence in determining how in future society will be organised, while the rapid change of information requires a more qualified work force. This work force is vital to high technology and economic competitiveness in many industrialised countries throughout the world. Within this framework, the quality of EME has become an issue. It is expected that the content of mathematics courses taught in schools of engineering today have to...



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