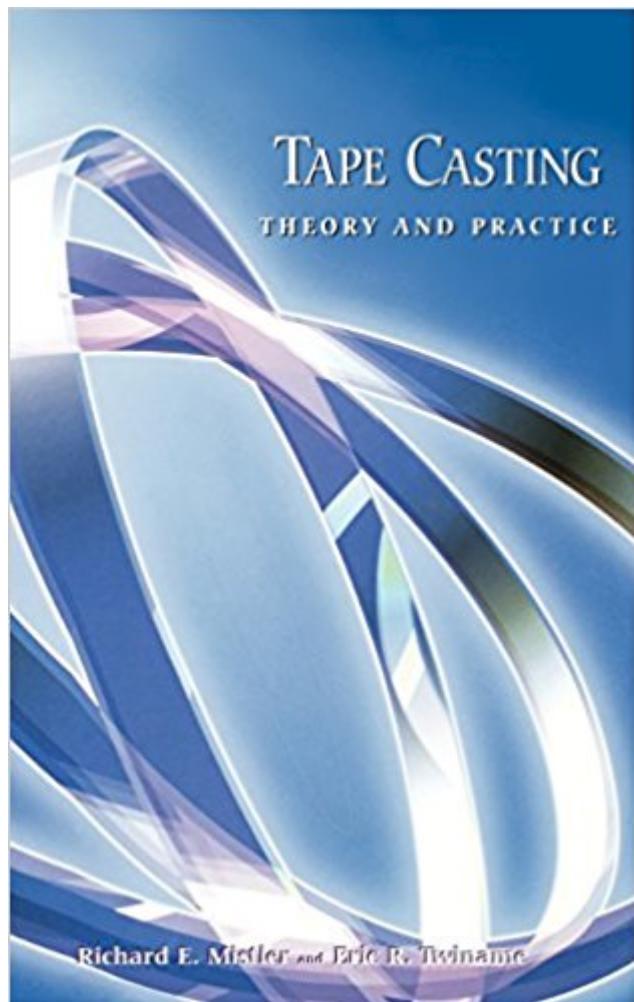


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Tape Casting: Theory And Practice



Synopsis

This major reference book is divided into two sections; the first deals with the practical, hands-on understanding of individual areas of tape casting and the other targets the understanding of the overall system. Readers can quickly address current problems with tried and true fixes and their relation to the overall process. The book handles the problem diagnosis separately from the standard production of quick-fixes. Tape Casting will benefit technicians, engineers, and engineering managers, as well as professors and students.

Book Information

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Customer Reviews

This book provides an overview of tape casting (which is largely what I was looking for). It is fairly technological (i.e., very little theory but lots of discussion of slip formulations etc.). It lacks the scholarship and technical depth of the discussion of knife coating in Liquid Film Coating - Scientific principles and their technological implications. It has fairly exhaustive reviews of what is written on coating and drying ceramics (including the history of tape casting), but not the rest of the literature on coating and drying. The biggest limitation is that it is ten years old. Things that are described as cutting edge then are no longer that way -- and the current state of the art is of course absent. Ten years ago I would have given it four stars (could use more depth in describing the hardware, drying, etc. but with lots of helpful information). There does not seem to be anything newer -- so maybe it's time for new edition.

I am currently a graduate student and have casted many tapes in my collegiate career. I have found this book to be quite useful in the fundamental understanding of tape casting. Though the formulas provided for tape casting (a few at the end of the book) are not terribly useful in my opinion, the rest of the book is. The book goes into detail on all the components typical of tape casting and many of the ideas proposed here extend to general organic and aqueous oxide slurry (I'm biased to ceramics) preparation for other fabrication techniques. Tape casting is an art and this book provides you with the general understanding of that art.

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