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TCSPC - What is Time-Correlated Single Photon Counting?

English | 2015 | pages: 639 | ISBN: 3319358421 | PDF | 22,9 mb. This book is an attempt to bridge the gap between the instrumental principles of multi-dimensional time-correlated single photon counting (TCSPC) and typical applications of the technique. Written by an originator of the technique and by successful users, it covers the basic principles of the technique, its interaction with optical imaging methods and its application to a wide range of experimental tasks in life sciences and ...

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In 1984 Desmond O' Connor and David Phillips published their comprehensive book „ Time-correlated Single Photon Counting “. At that time time-correlated single photon counting, or TCSPC, was used primarily to record fluorescence decay functions of dye solutions in cuvettes. From the beginning, TCSPC was an amazingly sensitive and accurate technique with excellent time-resolution.

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