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Reliability Engineering: Theory and Practice

By Alessandro Birolini

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I have all editions - from fourth of the book Reliability Engineering - evolving comprehensive all-life work of Prof Birolini. Since early 90's I saw his book at the desks of senior analysts and designers in Sukhoy Design Bureau, British Aerospace, Boeing, Washington University, ETH Zurich, Moscow state university and many other Institutions, and universities around the globe, including even Chinese universities. Together with Washington University and Stanford University professors I consider the work of Birolini and efforts in making reliability theory practical the best in the world. My PhD students around the globe call it "Birolini Bible". Well, I agree with this definition.

When quality control appeared as popular subject Birolini book had it many years ago explained in full details. Based on my knowledge this segment if the book is widely used in a automotive industry in Europe and Japan.

When you need to start from the beginning of reliability theory - appendixes of the book are more than enough for all engineers who try to apply reliability in practice.

Thus, from advanced master students and higher - up to chief analysts of corporations responsible for RAS (reliability, availability and serviceability) - in terms of IBM since 60's of last century, this book is essential and ... complete.

ICT now is booming and occupies more and more segments of human life, including critical and safety critical segments. Thus electronics reliability - chapters that describe reliability models for this technological area are becoming more and more important. Prof Birolini is unique in his experience - he was involved in real engineering of reliability in industries. At the same time, he was a leading professor of reliability theory in those days best engineering university in the world - ETH Zurich.

This edition is the most complete and even includes some philosophical insights on science and methodology. Europe and Springer-Nature might be proud assisting this work of Prof. A. Birolini.

Prof Igor Schagaev

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