Transport systems
(Sisteme de transport)

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Transport Systems book, published under the signature of Prof. PhD eng. Şerban RAICU at AGIR Publishing House in 2007, represents the result of quantitative and qualitative accumulations of over 45 years of teaching and research activities in the Transport engineering domain. Through its eight chapters (Transports and social economical environment, Traffic flows, Transport vehicles and units of charge, Optimized solutions for meeting the transport demands, Modelling of structure and activity of the systems and elements of transport politics the paper is useful both to students and to design and exploitation research specialists who after acquiring experience and returning to the paper discover new and unexpected meanings and new research directions.

The logical succession of book chapters captures the interest and contributes to deepen the training of the specialist in the field, especially that the descriptive aspects have been extremely diminished, in favour of the formative aspects.

The clear and concise style used to define the elements of the Transport engineering domain makes the reader discover the beauty and the complexity of the domain and willing to study and deepen the provided knowledge.

However, the paper is not a manual in the true sense of the word, because the style is not the one attributed to the teacher “who said so” but to the teacher whose experience makes you ask yourself about the imperfections of the solutions from the complex transport system.

From the Transport System book we find out for the first time about the ex-ante and the ex-post demand or the one that has been satisfied by the actual transport offer. This last meaning of the demand concept is inseparable from the one of the transport offer. The demand-offer correlation tightens the ex-ante demand to the ex-post one, stimulating or inhibiting the ex-ante demand diversification and amplification.

The importance of the transport systems for the society is permanently brought to the reader’s attention by the links and intimate connections to other domains like urbanism, land use, exact sciences but also to the human-social ones, continuously remodeling a domain with accelerated dynamics. The assertion that solving complex transport problems is only to be done by multidisciplinary and interdisciplinary teams formed by engineers, urban planners, architects, geographers, biologists, sociologists, economists or even psychologists, called to find solutions to ensure the increased social mobility with resource consumption and negative external effects as low as possible, is also a part of the book. Thus conditions
are met for satisfying the need for mobility for goods and people to join the requirements of sustainable development and to increase quality of life.

Result of a rich and long experience in an area of research that Prof. PhD Eng. Şerban RAICU served with competence and extreme passion, this work individualises by its original aspect, complexity and the perennial of the topics developed.

I appreciate that by publishing the Transport Systems book Prof. PhD Eng. Şerban RAICU succeeded to highly emphasize the Transport Engineering domain and also to prove its utility, attractiveness and mostly its importance within a fast changing social-economical environment. So, the higher education in Transport Engineering domain is orientated, without any doubt, towards the concerns of universities all over the world that we collaborate or compete with nowadays.

The undisputed contribution of Transport System book to the development of the field was acknowledged by the rewarding of the AGIR Diploma in 2008. So, Prof. PhD Eng. Şerban RAICU can be considered the founder of the modern Transport engineering school.

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